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IONOSPHERIC DATA

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IONOSPHERIC DATA

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TERMINOLOGY AND SCALING PRACTICES

The symbols and terminology used in this report are those adopted by the International Radio Propagation Conference, and given in detail on pages 24 to 26 of the report IRPL-C61, "Report of International Radio Propagation Conference," and in the section on "Terminology," in reports IRPL-F1, 2, 3, 4, 5.

In the past, ionospheric conditions were summarized on a monthly basis by using average or mean values, for each hour of the day, for each month. However, following the recommendations of the International Radio Propagation Conference, held in Washington 17 April to 5 May 1944, beginning with data for 1 Jan. 1945, median values were used by IRPL wherever possible. Thus, median values are given for Washington, for all stations reporting directly to the CRPL, for the Canadian stations, and for all others sending in detailed tabulations to the CRPL, from which medians can be computed.

Where averages are reported, they are, at any hour, the average for all the days during the month for which numerical data existed.

The monthly median values used here are the values equaled or exceeded on half the days of the month at the given hour. The following conventions are used in determining the medians for hours when no measured values are given because of equipment limitations and ionospheric irregularities. Symbols used are those given in the report referred to above, IRPL-C61.

a. For all ionospheric characteristics:

Values missing because of A, B, C or F (see terminology referred to above) are omitted from the median count.

b. For critical frequencies and virtual heights:

Values missing because of E are counted as equal to or less than the lower limit of the recorder.

Values missing because of D are counted as equal to or greater than the upper limit of the recorder.

Values missing because of G are counted:

1. For f^oF2 , as equal to or less than f^oF1 .

2. For h^oF2 , as equal to or greater than the median.

Values missing for any other reason are omitted from the median count.

c. For muf factors (M-factors):

Values missing because of G are counted as equal to or less than the median.

Values missing for any other reason are omitted from the median count.

d. For sporadic E (E_s):

Values of f^0E_s missing because no E_s reflections appeared, the equipment functioning normally otherwise, are counted as equal to or less than the median f^0E , or equal to or less than the lower frequency count of the recorder.

Values of f^0E_s missing for any other reason, and values of hE_s missing for any reason at all, are omitted from the median count.

Beginning with data for November 1945, doubtful monthly median values for ionospheric observations at Washington, D.C., are indicated by parentheses, in accordance with the practice already in use for doubtful hourly values. The following are the conventions used to determine whether or not a median value is doubtful:

1. If only four values or less are available, no median value is computed, the data being considered insufficient.
2. For the F2 layer, if only five to nine values are available, the median is considered doubtful. The E and F1 layers are so regular in their characteristics that, so long as there are at least five values, the median is not considered as doubtful.
3. For all layers, if more than half of the values used to compute the median are doubtful (either doubtful or interpolated), the median is considered doubtful.

It is expected that this practice will be of assistance in evaluating the monthly median Washington data.

The same conventions are used by the CRPL in computing the medians from tabulations of daily and hourly data for stations other than Washington, beginning with the tables in IRPL-F18.

"Extent of E" is defined as follows: the highest value of f^0E . This is usually E_s , but may include cases of normal E which were difficult to distinguish from E_s , owing to the absence of a definite cusp.

MONTHLY AVERAGE AND MEDIAN VALUES OF WORLD-WIDE IONOSPHERIC DATA

The ionospheric data given here in Tables 1 to 80 and Figs. 1 to 87 were assembled by the Central Radio Propagation Laboratory for analysis and correlation, incidental to CRPL predictions of radio propagation conditions. The data are median values unless otherwise indicated. The following are the sources of the data:

Australian Council for Scientific and Industrial Research, Radio Research Board, Australia:

Brisbane, Australia
Canberra, Australia
Cape York, Australia
Hobart, Tasmania
Townsville, Australia

British Department of Scientific and Industrial Research (National Physical Laboratory):

Slough, England
Great Baddow, England
Burghead, Scotland
Capetown, Union of S. Africa
Colombo, Ceylon
Oslo, Norway
Cairo, Egypt
Falkland Is.
Tromso, Norway

Canadian Radio Wave Propagation Committee:

Churchill, Canada
Ottawa, Canada
St. John's, Newfoundland
Prince Rupert, Canada
Clyde, Baffin I.
Swan River, Manitoba (Mobile unit)
The Pas, Manitoba (Mobile unit)
Gillam, Manitoba (Mobile unit)

New Zealand Radio Research Committee:

Kermadec Is.
Christchurch (Canterbury University College Observatory)
Campbell I.
Pitcairn I.
Rarotonga I.

South African Council for Scientific and Industrial Research: Johannesburg, Union of S. Africa

Scientific Research Institute of Terrestrial Magnetism, Moscow, U.S.S.R.:
Bukhta Tikhaya, U.S.S.R.
Tomsk, U.S.S.R.
Sverdlovsk, U.S.S.R.
Moscow, U.S.S.R.
Leningrad, U.S.S.R.
Alma Ata, U.S.S.R.

Carnegie Institution of Washington (Department of Terrestrial Magnetism):
Huancayo, Peru
Watheroo, W. Australia

United States Army Signal Corps:
Leyte, Philippine Is.
Tokyo, Japan
Okinawa, I.

National Bureau of Standards (Central Radio Propagation Laboratory):
Washington, D. C.
San Francisco, California (Stanford University)
Baton Rouge, Louisiana (Louisiana State University)
San Juan, Puerto Rico (University of Puerto Rico)
Boston, Massachusetts (Harvard University)
Fairbanks, Alaska (University of Alaska, College, Alaska)
Palmyra I.
Adak, Alaska
Guam I.
Maui, Hawaii
Trinidad, British West Indies

All India Radio (Government of India), New Delhi, India:
Bombay, India
Delhi, India
Madras, India
Peshawar, India

Radio Wave Research Laboratories, Central Broadcasting Administration:
Chungking, China
Peiping, China

National Wuhan University:
Wuchang, China

The tables of "provisional data" give values (1) as reported either to the CRPL or other central laboratory by telephone or telegraph; or (2) which are reported in summary form by stations from which monthly ionospheric data for every day and every hour may normally be expected at a later date.

The tables and graphs of "final data" are correct for the values reported to the CRPL, but, because of variations in practice in the interpretation of records and scaling and manner of reporting of values, may at times give an erroneous conception of typical ionospheric characteristics at the station. Some of these errors are due to:

- a. Differences in scaling records where spread echoes are present.
- b. Omission of values where f^oF2 is less than or equal to f^oF1 , leading to erroneously high values of monthly average or median values.
- c. Omission of values where critical frequencies are less than the lower frequency limit of the recorder, also leading to erroneously high values of monthly average or median values.

These effects were discussed on pages 6 and 7 of the previous F-series reports, IRPL-F1, 2, 3, 4, and 5.

The dashed-line prediction curves of the graphs of ionospheric data are obtained from the predicted zero-muf contour charts of the CRPL-D series publications. Predictions for individual stations used to construct the charts may be more accurate than the values read from the chart since some smoothing of the contours is necessary to allow for the longitude effect within a zone.

Discrepancies between predicted and observed values are often ascribable to these effects.

IONOSPHERIC DATA FOR EVERY DAY AND HOUR AT WASHINGTON, D. C.

The data given in Tables 69 to 80 follow the scaling practices given in the report IRPL-C61, "Report of International Radio Propagation Conference," pages 36 to 39, and the median values are determined by the conventions given above under "Terminology and Scaling Practices".

IONOSPHERE DISTURBANCES

Table 81 presents ionosphere character figures for Washington, D.C., during August 1946, as determined by the criteria presented in the report IRPL-R5, "Criteria for Ionospheric Storminess," together with American magnetic K-figures which are usually covariant with them.

Table 82 lists for the stations whose locations are given the sudden ionosphere disturbances observed on the continuous field intensity recordings made at the Sterling Radio Propagation Laboratory during August 1946.

Table 83 lists for the stations whose locations are given the sudden ionosphere disturbances observed at the Brentwood and Somerton, England receiving stations of Cable and Wireless Ltd. during July and August 1946.

Table 84 gives provisional radio propagation quality figures for North Atlantic and North Pacific areas, for 01 to 12 and 13 to 24 GCT, July 1946, compared with the CRPL daily radio disturbance warnings, which are primarily for the North Atlantic paths, the CRPL weekly radio propagation forecasts of probable disturbed periods, and the half-day American geomagnetic K-figures.

The radio propagation quality figures for the North Atlantic were prepared from radio traffic and ionospheric data reported to the CRPL, in the manner described in detail in report IRPL-R31, "North Atlantic Radio Propagation Disturbances October 1943 through October 1945," issued 1 Feb. 1946.

The radio propagation quality figures for the North Pacific were prepared from radio traffic and ionospheric data reported to the CRPL, in a manner similar to that of IRPL-R31. The master scale of IRPL-R31 was used to formulate conversion scales for the North Pacific reports. Currently, beginning with CRPL-F23, issued July 1946, the North Pacific radio propagation quality figures reported are prepared from these revised conversion scales rather than, as hitherto, from the conversion scales of report IRPL-R13, "Ionospheric and Radio Propagation Disturbances, October 1943 through February 1945," issued 24 May 1945.

These radio propagation quality figures give a consensus of opinion of actual radio propagation conditions as reported by the half day over the two general areas. It should be borne in mind, however, that though the quality may be disturbed according to the CRPL scale, the cause of the disturbance is not necessarily known. There are many variables that must be considered. In addition to ionospheric storminess itself as the

cause, conditions may be reported as disturbed because of seasonal characteristics, such as are particularly evident in the pronounced day and night contrast over North Pacific paths during the winter months, or because of improper frequency usage for the path and time of day in question. Insofar as possible, frequency usage is included in rating the reports. Where the actual frequency usage is not shown in the report to the CRPL, it has been assumed that the report is made on the use of optimum working frequencies for the path and time of day in question. Since there is a possibility that all of the disturbance shown by the quality figures is not due to ionospheric storminess alone, care should be taken in using the quality figures in research correlations with solar, auroral, geomagnetic, or other data. Nevertheless, these quality figures do reflect a consensus of opinion of actual radio propagation conditions as found on any one half-day in either of the two general areas.

AMERICAN RELATIVE SUNSPOT NUMBERS

Table 85 presents the daily median values of relative sunspot numbers as reported by American observers. The reports have been reduced, by appropriate constants, approximately to the Zurich scale of relative sunspot numbers. The monthly relative sunspot number is the mean of the daily median values listed in the table. This method was devised by Mr. A. H. Shapley of DTM, CIW. Details will be found in "Popular Astronomy," Vol. 54, No. 7, pp. 351 to 358, Aug. 1946; title, American Observations of Relative Sunspot Numbers in 1945 for Application to Ionospheric Predictions - by A. H. Shapley.

ERRATA

1. CRPL-F24:
Tables 1², 23, 24, 25, 27, and 28 should read median values, and not average values.
2. CRPL-F23:
Tables 18, 20, 21, 22, and 24 should read median values, and not average values.
3. IRPL-F22:
Table 15 should read median values, and not average values.

4. CRPL-F24, Table 56 should read at hours indicated:

| <u>Time</u> | <u>f°F2</u> | <u>F2-M3000</u> |
|-------------|-------------|-----------------|
| 0000 | 10.3 | |
| 0300 | | 3.1 |
| 1000 | 9.9 | |
| 1400 | 10.8 | |
| 1500 | 11.2 | |
| 1600 | 11.3 | |
| 1700 | 11.7 | 2.5 |
| 1900 | (11.3) | (2.5) |
| 2000 | 10.2 | (2.4) |
| 2100 | (9.5) | (2.6) |
| 2200 | (9.8) | |
| 2300 | 10.0 | (2.7) |

Corresponding changes in the graphs of Figs. 45 and 46 of same issue should be visualized.

5. CRPL-F24, Table 64 should read at hours indicated:

| <u>Time</u> | <u>f°F2</u> | <u>F2-M3000</u> |
|-------------|-------------|-----------------|
| 0000 | 11.4 | 3.0 |
| 0100 | 11.2 | |
| 0300 | 7.1 | |
| 0400 | 6.1 | |
| 0600 | 4.6 | |
| 0700 | 7.7 | |
| 1000 | 11.1 | |
| 1100 | 10.4 | |
| 1200 | 10.3 | |
| 1300 | 10.9 | |
| 1400 | 11.5 | |
| 1500 | 12.0 | |
| 1600 | 12.5 | 2.5 |
| 1700 | 13.0 | |
| 1900 | 11.6 | 2.5 |
| 2100 | 11.5 | (2.4) |
| 2200 | 12.4 | 2.8 |
| 2300 | 11.8 | (2.8) |

Corresponding changes in the graphs of Figs. 60 and 61 of same issue should be visualized.

6. In previous issues of the IRPL-F and CRPL-F series, values of F2-M3000 for Slough, England were computed from average values, and were not median values.

Table 1 (Provisional data)

Clyde, Baffin I. (70.5°N, 68.6°W)

August 1946

| Time | h'F2 | f'F2 | h'F1 | f'F1 | h'E | f'E | h'S | f'S | Time |
|------|------|------|------|------|-----|-----|-----|-----|------|
| 00 | 4.9 | | 3.1 | | | | | | |
| 01 | 5.2 | | 3.0 | | | | | | |
| 02 | 4.8 | | 3.1 | | | | | | |
| 03 | 4.5 | | 3.2 | | | | | | |
| 04 | 5.0 | | 3.1 | | | | | | |
| 05 | 4.9 | | 3.2 | | | | | | |
| 06 | 5.0 | | 3.1 | | | | | | |
| 07 | 5.2 | | 3.1 | | | | | | |
| 08 | 5.3 | | 3.2 | | | | | | |
| 09 | 5.4 | | 3.1 | | | | | | |
| 10 | 5.4 | | 3.1 | | | | | | |
| 11 | 5.3 | | 2.9 | | | | | | |
| 12 | 5.5 | | 2.9 | | | | | | |
| 13 | 5.4 | | 2.8 | | | | | | |
| 14 | 5.6 | | 2.9 | | | | | | |
| 15 | 5.4 | | 2.8 | | | | | | |
| 16 | 5.3 | | 3.0 | | | | | | |
| 17 | 5.4 | | 3.0 | | | | | | |
| 18 | 5.3 | | 3.0 | | | | | | |
| 19 | 5.3 | | 3.0 | | | | | | |
| 20 | 5.2 | | 3.0 | | | | | | |
| 21 | 5.1 | | 3.0 | | | | | | |
| 22 | 4.9 | | 3.0 | | | | | | |
| 23 | 4.9 | | 3.0 | | | | | | |

Time: 75.0°W.
Sweep: 2.0 Mc to 16.0 Mc in one minute.

Table 3 (Provisional data)

Churchill, Canada (58.8°N, 94.2°W)

August 1946

| Time | h'F2 | f'F2 | h'F1 | f'F1 | h'E | f'E | h'S | f'S | Time |
|------|------|------|------|------|-----|-----|-----|-----|------|
| 00 | 4.8 | | 2.8 | | | | | | |
| 01 | 5.1 | | 2.7 | | | | | | |
| 02 | 4.8 | | 2.8 | | | | | | |
| 03 | 4.7 | | 2.8 | | | | | | |
| 04 | 4.6 | | 2.9 | | | | | | |
| 05 | 4.7 | | 2.9 | | | | | | |
| 06 | 5.2 | | 3.0 | | | | | | |
| 07 | 5.6 | | 3.0 | | | | | | |
| 08 | 6.1 | | 2.9 | | | | | | |
| 09 | 6.4 | | 2.9 | | | | | | |
| 10 | 6.4 | | 2.8 | | | | | | |
| 11 | 6.6 | | 2.8 | | | | | | |
| 12 | 6.8 | | 2.7 | | | | | | |
| 13 | 6.8 | | 2.6 | | | | | | |
| 14 | 6.8 | | 2.7 | | | | | | |
| 15 | 7.4 | | 2.7 | | | | | | |
| 16 | 7.3 | | 2.8 | | | | | | |
| 17 | 7.4 | | 2.8 | | | | | | |
| 18 | 6.9 | | 2.8 | | | | | | |
| 19 | 6.6 | | 2.8 | | | | | | |
| 20 | 6.0 | | 2.9 | | | | | | |
| 21 | 5.9 | | 2.8 | | | | | | |
| 22 | 5.8 | | 2.8 | | | | | | |
| 23 | 5.6 | | 2.7 | | | | | | |

Time: 90.0°W.
Sweep: 2.0 Mc to 16.0 Mc in one minute.

Table 1 (Provisional data)

Fairbanks, Alaska (64.9°N, 147.8°W)

August 1946

| Time | h'F2 | f'F2 | h'F1 | f'F1 | h'E | f'E | h'S | f'S | Time |
|------|------|------|------|------|-----|-----|-----|-----|------|
| 00 | 31.0 | | 4.6 | | | | | | |
| 01 | 30.0 | | 4.4 | | | | | | |
| 02 | 31.0 | | 4.5 | | | | | | |
| 03 | 31.0 | | 4.5 | | | | | | |
| 04 | 32.0 | | 4.9 | | | | | | |
| 05 | 35.0 | | 5.4 | | | | | | |
| 06 | 39.0 | | 6.8 | | | | | | |
| 07 | 36.0 | | 6.2 | | | | | | |
| 08 | 37.0 | | 6.4 | | | | | | |
| 09 | 37.0 | | 6.8 | | | | | | |
| 10 | 38.0 | | 6.6 | | | | | | |
| 11 | 39.0 | | 6.7 | | | | | | |
| 12 | 39.0 | | 6.6 | | | | | | |
| 13 | 41.0 | | 6.6 | | | | | | |
| 14 | 37.0 | | 6.5 | | | | | | |
| 15 | 38.0 | | 6.3 | | | | | | |
| 16 | 34.0 | | 6.2 | | | | | | |
| 17 | 27.0 | | 6.2 | | | | | | |
| 18 | 26.0 | | 6.4 | | | | | | |
| 19 | 20.0 | | 5.8 | | | | | | |
| 20 | 27.0 | | 5.4 | | | | | | |
| 21 | 21 | | 5.0 | | | | | | |
| 22 | 27.0 | | 5.0 | | | | | | |
| 23 | 28.0 | | 4.6 | | | | | | |

Time: 150.0°W.
Sweep: 15.0 Mc to 0.5 Mc in fifteen minutes.

Table 3 (Provisional data)

Prince Rupert, Canada (54.0°N, 130.3°W)

August 1946

| Time | h'F2 | f'F2 | h'F1 | f'F1 | h'E | f'E | h'S | f'S | Time |
|------|------|------|------|------|-----|-----|-----|-----|------|
| 00 | | 4.5 | | | | | | | 3.0 |
| 01 | | 4.1 | | | | | | | 3.0 |
| 02 | | 3.8 | | | | | | | 2.9 |
| 03 | | 3.4 | | | | | | | 3.0 |
| 04 | | 3.3 | | | | | | | 3.0 |
| 05 | | 3.7 | | | | | | | 3.0 |
| 06 | | 4.7 | | | | | | | 3.0 |
| 07 | | 5.4 | | | | | | | 3.0 |
| 08 | | 6.0 | | | | | | | 3.0 |
| 09 | | 6.2 | | | | | | | 2.8 |
| 10 | | 6.8 | | | | | | | 2.9 |
| 11 | | 7.2 | | | | | | | 2.9 |
| 12 | | 7.4 | | | | | | | 2.8 |
| 13 | | 6.9 | | | | | | | 2.9 |
| 14 | | 6.8 | | | | | | | 2.9 |
| 15 | | 6.9 | | | | | | | 2.9 |
| 16 | | 6.5 | | | | | | | 3.0 |
| 17 | | 6.7 | | | | | | | 3.0 |
| 18 | | 6.8 | | | | | | | 3.1 |
| 19 | | 6.4 | | | | | | | 3.2 |
| 20 | | 6.5 | | | | | | | 3.2 |
| 21 | | 6.1 | | | | | | | 3.2 |
| 22 | | 5.9 | | | | | | | 3.2 |
| 23 | | 5.1 | | | | | | | 3.1 |

Time: 120.0°W.
Sweep: Manual operation.

| Time | h'F2 | f'F2 | h'F1 | f'F1 | h'E | f'E | h'S | f'S | Time |
|------|------|------|------|------|-----|-----|-----|-----|------|
| 00 | 31.0 | | 4.6 | | | | | | |
| 01 | 30.0 | | 4.4 | | | | | | |
| 02 | 31.0 | | 4.5 | | | | | | |
| 03 | 31.0 | | 4.5 | | | | | | |
| 04 | 32.0 | | 4.9 | | | | | | |
| 05 | 35.0 | | 5.4 | | | | | | |
| 06 | 39.0 | | 6.8 | | | | | | |
| 07 | 36.0 | | 6.2 | | | | | | |
| 08 | 37.0 | | 6.4 | | | | | | |
| 09 | 37.0 | | 6.8 | | | | | | |
| 10 | 38.0 | | 6.6 | | | | | | |
| 11 | 39.0 | | 7.2 | | | | | | |
| 12 | 39.0 | | 7.4 | | | | | | |
| 13 | 41.0 | | 6.9 | | | | | | |
| 14 | 37.0 | | 6.8 | | | | | | |
| 15 | 38.0 | | 6.5 | | | | | | |
| 16 | 34.0 | | 6.5 | | | | | | |
| 17 | 28.0 | | 6.8 | | | | | | |
| 18 | 18 | | 6.8 | | | | | | |
| 19 | 19 | | 6.4 | | | | | | |
| 20 | 20 | | 6.2 | | | | | | |
| 21 | 21 | | 6.1 | | | | | | |
| 22 | 22 | | 5.9 | | | | | | |
| 23 | 23 | | 5.1 | | | | | | |

Time: 120.0°W.
Sweep: Manual operation.

Table 5 (Provisional data)

August 1946

Alaska, Alaska (51.9°N, 176.8°W)

St. John's, Newfoundland (47.6°N, 52.7°W)

August 1946

| Time | h'F2 | f'F2 | h'F1 | f'F1 | h'E | f'E | f'OE | f'ES | F2-M5000 |
|------|------|------|------|------|-----|-----|------|------|----------|
| 00 | 280 | 5.4 | | | | | | | |
| 01 | | | | | | | | | |
| 02 | | | | | | | | | |
| 03 | | | | | | | | | |
| 04 | | | | | | | | | |
| 05 | 380 | 6.4 | 220 | 4.1 | 2.5 | 4.3 | 2.9 | 0.6 | 4.3 |
| 06 | 350 | 7.0 | 230 | 4.5 | 2.7 | 4.5 | 2.9 | 0.6 | 5.3 |
| 08 | 310 | 7.4 | 220 | 4.7 | 2.8 | 6.0 | 2.8 | 0.7 | 6.1 |
| 09 | 300 | 7.8 | 210 | 4.9 | 2.8 | 5.3 | 3.0 | 0.8 | 6.6 |
| 10 | 310 | 8.0 | 220 | 5.1 | 2.8 | 5.0 | 3.0 | 0.9 | 6.9 |
| 11 | | | | | | | | | 6.7 |
| 12 | 310 | 8.1 | 210 | 5.1 | 2.9 | 5.2 | 3.0 | 1.0 | 6.4 |
| 13 | 310 | 7.6 | 220 | 5.3 | 3.0 | 4.7 | 3.1 | 1.1 | 6.6 |
| 14 | 300 | 7.6 | 220 | 5.1 | 2.8 | 5.1 | 3.1 | 1.2 | 6.5 |
| 15 | | | | | | | | | 6.5 |
| 16 | | | | | | | | | 6.9 |
| 17 | | | | | | | | | 7.0 |
| 18 | 250 | 7.4 | | | 3.9 | 3.2 | 3.0 | 1.2 | 7.0 |
| 19 | 260 | 7.4 | | | 4.0 | 3.2 | 3.0 | 1.3 | 7.0 |
| 20 | 250 | 7.2 | | | 3.5 | 3.0 | 2.9 | 2.0 | 7.6 |
| 21 | 250 | 6.9 | | | 3.4 | 3.0 | 2.9 | 2.1 | 7.1 |
| 22 | 260 | 6.4 | | | 3.5 | 2.9 | 2.9 | 2.2 | 6.9 |
| 23 | 280 | 5.5 | | | 3.9 | 2.9 | 2.9 | 2.3 | 6.6 |
| | | | | | | | | | 6.6 |

Time: 180.0°W.
Sweep: Manual operation.

Table 7 (Provisional data)

August 1946

Ottawa, Canada (45.5°N, 75.8°W)

August 1946

| Time | h'F2 | f'F2 | h'F1 | f'F1 | h'E | f'E | f'OE | f'ES | F2-M5000 |
|------|------|------|------|------|-----|-----|------|------|----------|
| 00 | | 5.2 | | | 2.7 | | | | |
| 01 | | 4.9 | | | 2.8 | | | | |
| 02 | | 4.5 | | | 2.9 | | | | |
| 03 | | 3.8 | | | 2.8 | | | | |
| 04 | | 3.5 | | | 3.0 | | | | |
| 05 | | 3.7 | | | 3.0 | | | | |
| 06 | | 4.9 | | | 3.0 | | | | |
| 07 | | 5.8 | | | 2.9 | | | | |
| 08 | | 6.0 | | | 2.9 | | | | |
| 09 | | 6.5 | | | 2.8 | | | | |
| 10 | | 6.6 | | | 2.8 | | | | |
| 11 | | 6.6 | | | 2.7 | | | | |
| 12 | | 6.6 | | | 2.7 | | | | |
| 13 | | 6.9 | | | 2.7 | | | | |
| 14 | | 7.0 | | | 2.7 | | | | |
| 15 | | 7.0 | | | 2.7 | | | | |
| 16 | | 7.4 | | | 2.7 | | | | |
| 17 | | 7.4 | | | 2.8 | | | | |
| 18 | | 7.8 | | | 2.8 | | | | |
| 19 | | 7.6 | | | 2.8 | | | | |
| 20 | | 7.5 | | | 2.8 | | | | |
| 21 | | 7.0 | | | 2.8 | | | | |
| 22 | | 6.2 | | | 2.8 | | | | |
| 23 | | 5.4 | | | 2.8 | | | | |

Time: 75.0°W.
Sweep: 1.93 Mc to 13.5 Mc. Manual operation.

Table 6 (Provisional data)

St. John's, Newfoundland (47.6°N, 52.7°W)

August 1946

| Time | h'F2 | f'F2 | h'F1 | f'F1 | h'E | f'E | f'OE | f'ES | F2-M5000 |
|------|------|------|------|------|-----|-----|------|------|----------|
| 00 | | | | | 0.0 | | | | |
| 01 | | | | | 0.1 | | | | |
| 02 | | | | | 0.2 | | | | |
| 03 | | | | | 0.3 | | | | |
| 04 | | | | | 0.4 | | | | |
| 05 | | | | | 0.5 | | | | |
| 06 | | | | | 0.6 | | | | |
| 07 | | | | | 0.7 | | | | |
| 08 | | | | | 0.8 | | | | |
| 09 | | | | | 0.9 | | | | |
| 10 | | | | | 1.0 | | | | |
| 11 | | | | | 1.1 | | | | |
| 12 | | | | | 1.2 | | | | |
| 13 | | | | | 1.3 | | | | |
| 14 | | | | | 1.4 | | | | |
| 15 | | | | | 1.5 | | | | |
| 16 | | | | | 1.6 | | | | |
| 17 | | | | | 1.7 | | | | |
| 18 | | | | | 1.8 | | | | |
| 19 | | | | | 1.9 | | | | |
| 20 | | | | | 2.0 | | | | |
| 21 | | | | | 2.1 | | | | |
| 22 | | | | | 2.2 | | | | |
| 23 | | | | | 2.3 | | | | |

Time: 52.5°N,
Sweep: Manual operation.

Table 7 (Provisional data)

Boston, Massachusetts (42.4°N, 71.2°W)

August 1946

| Time | h'F2 | f'F2 | h'F1 | f'F1 | h'E | f'E | f'OE | f'ES | F2-M5000 |
|------|------|------|------|------|-----|-----|------|------|----------|
| 00 | | | | | 0.0 | | | | |
| 01 | | | | | 0.1 | | | | |
| 02 | | | | | 0.2 | | | | |
| 03 | | | | | 0.3 | | | | |
| 04 | | | | | 0.4 | | | | |
| 05 | | | | | 0.5 | | | | |
| 06 | | | | | 0.6 | | | | |
| 07 | | | | | 0.7 | | | | |
| 08 | | | | | 0.8 | | | | |
| 09 | | | | | 0.9 | | | | |
| 10 | | | | | 1.0 | | | | |
| 11 | | | | | 1.1 | | | | |
| 12 | | | | | 1.2 | | | | |
| 13 | | | | | 1.3 | | | | |
| 14 | | | | | 1.4 | | | | |
| 15 | | | | | 1.5 | | | | |
| 16 | | | | | 1.6 | | | | |
| 17 | | | | | 1.7 | | | | |
| 18 | | | | | 1.8 | | | | |
| 19 | | | | | 1.9 | | | | |
| 20 | | | | | 2.0 | | | | |
| 21 | | | | | 2.1 | | | | |
| 22 | | | | | 2.2 | | | | |
| 23 | | | | | 2.3 | | | | |

Time: 75.0°W.
Sweep: 0.85 Mc to 13.75 Mc in one minute.

Table 9 (Provisional data)

| San Francisco, California (37°4'N, 122°2'W) | | | | | | | August 1946 | | | | | | | | |
|---|-------------------|-------------------|-------------------|-------------------------------|------------------|------------------|-------------------------------|-------------------------------|-------------------|-------------------|------------------|------------------|-------------------------------|-------------------------------|----------|
| Time | h ¹ F2 | 2 ⁰ F2 | h ¹ Hf | f ⁰ T ₁ | h ¹ E | f ⁰ E | h ¹ T ₁ | f ⁰ T ₂ | h ¹ Hf | f ⁰ Hf | h ¹ E | f ⁰ E | h ¹ T ₁ | f ⁰ T ₂ | P2-M3000 |
| 00 | 5.3 | | | | 2.6 | | | | 5.4 | | | | | | |
| 01 | 5.1 | | | | 2.6 | | | | 5.4 | | | | | | 2.9 |
| 02 | 5.0 | | | | 2.7 | | | | 5.4 | | | | | | 3.0 |
| 03 | 4.8 | | | | 2.7 | | | | 5.2 | | | | | | 3.0 |
| 04 | 4.8 | | | | 2.7 | | | | 4.9 | | | | | | 3.0 |
| 05 | 4.4 | | | | 2.8 | | | | 4.6 | | | | | | 3.0 |
| 06 | 5.8 | | | | 2.8 | | | | 4.4 | | | | | | 3.0 |
| 07 | 7.1 | | | | 3.0 | | | | 5.1 | | | | | | 3.0 |
| 08 | 7.7 | | | | 3.0 | | | | 6.6 | | | | | | 3.2 |
| 09 | 8.2 | | | | 2.8 | | | | 7.5 | | | | | | 3.0 |
| 10 | 8.4 | | | | 2.7 | | | | 7.4 | | | | | | 3.0 |
| 11 | 8.5 | | | | 2.8 | | | | 8.0 | | | | | | 2.9 |
| 12 | 8.4 | | | | 2.8 | | | | 8.0 | | | | | | 2.9 |
| 13 | 8.7 | | | | 2.8 | | | | 8.5 | | | | | | 2.9 |
| 14 | 8.5 | | | | 2.8 | | | | 9.2 | | | | | | 2.9 |
| 15 | 8.4 | | | | 2.8 | | | | 9.5 | | | | | | 2.9 |
| 16 | 8.2 | | | | 2.9 | | | | 9.1 | | | | | | 3.0 |
| 17 | 7.8 | | | | 2.9 | | | | 9.3 | | | | | | 3.0 |
| 18 | 7.8 | | | | 3.0 | | | | 9.2 | | | | | | 3.0 |
| 19 | 7.2 | | | | 3.0 | | | | 8.5 | | | | | | 3.1 |
| 20 | 7.1 | | | | 3.1 | | | | 7.6 | | | | | | 3.1 |
| 21 | 6.3 | | | | 2.9 | | | | 6.5 | | | | | | 3.1 |
| 22 | 5.8 | | | | 2.9 | | | | 6.1 | | | | | | 3.0 |
| 23 | 5.4 | | | | 2.8 | | | | 5.8 | | | | | | 3.0 |
| | | | | | 2.6 | | | | 5.6 | | | | | | 2.9 |

Time: 120°0'W.
Sweep: 0.8 Mc to 12.0 Mc in six minutes. Record centered on the hour.

Table 11 (Provisional data)

| Maui, Hawaii (20°8'N, 156°5'W) | | | | | | | August 1946 | | | | | | | | |
|--------------------------------|-------------------|-------------------|-------------------|-------------------------------|------------------|------------------|-------------------------------|-------------------------------|-------------------|-------------------|------------------|------------------|-------------------------------|-------------------------------|----------|
| Time | h ¹ F2 | 2 ⁰ F2 | h ¹ Hf | f ⁰ T ₁ | h ¹ E | f ⁰ E | h ¹ T ₁ | f ⁰ T ₂ | h ¹ Hf | f ⁰ Hf | h ¹ E | f ⁰ E | h ¹ T ₁ | f ⁰ T ₂ | P2-M3000 |
| 00 | 300 | 8.5 | | | 3.4 | | | | | | | | | | |
| 01 | 250 | 8.2 | | | 3.6 | | | | | | | | | | |
| 02 | 250 | 6.7 | | | 3.3 | | | | | | | | | | |
| 03 | 250 | 6.5 | | | 3.3 | | | | | | | | | | |
| 04 | 250 | 5.3 | | | 3.5 | | | | | | | | | | |
| 05 | 260 | 6.3 | | | 3.4 | | | | | | | | | | |
| 06 | 250 | 7.5 | | | 3.4 | | | | | | | | | | |
| 07 | 250 | 7.0 | | | 4.4 | | | | | | | | | | |
| 08 | 290 | 8.0 | | | 4.6 | | | | | | | | | | |
| 09 | 250 | 8.4 | | | 5.6 | | | | | | | | | | |
| 10 | 400 | 9.3 | | | 5.6 | | | | | | | | | | |
| 11 | 400 | 10.6 | | | 5.6 | | | | | | | | | | |
| 12 | 400 | 11.6 | | | 5.6 | | | | | | | | | | |
| 13 | 360 | 11.8 | | | 5.4 | | | | | | | | | | |
| 14 | 350 | 12.4 | | | 5.3 | | | | | | | | | | |
| 15 | 330 | 12.5 | | | 5.1 | | | | | | | | | | |
| 16 | 300 | 12.4 | | | 4.9 | | | | | | | | | | |
| 17 | 290 | 11.0 | | | 4.0 | | | | | | | | | | |
| 18 | 250 | 11.9 | | | 3.6 | | | | | | | | | | |
| 19 | 280 | 10.2 | | | 3.4 | | | | | | | | | | |
| 20 | 300 | 10.3 | | | 3.4 | | | | | | | | | | |
| 21 | 300 | 9.5 | | | 3.4 | | | | | | | | | | |
| 22 | 300 | 9.4 | | | 3.4 | | | | | | | | | | |
| 23 | 300 | 8.2 | | | 3.4 | | | | | | | | | | |

Time: 150°0'W.
Sweep: 2.2 Mc to 16.0 Mc in one minute.

Table 12 (Provisional data)

| Trinidad, Brit. West Indies (10°6'N, 61°2'W) | | | | | | | August 1946 | | | | | | | | |
|--|-------------------|-------------------|-------------------|-------------------------------|------------------|------------------|-------------------------------|-------------------------------|-------------------|-------------------|------------------|------------------|-------------------------------|-------------------------------|----------|
| Time | h ¹ F2 | 2 ⁰ F2 | h ¹ Hf | f ⁰ T ₁ | h ¹ E | f ⁰ E | h ¹ T ₁ | f ⁰ T ₂ | h ¹ Hf | f ⁰ Hf | h ¹ E | f ⁰ E | h ¹ T ₁ | f ⁰ T ₂ | P2-M3000 |
| 00 | 270 | | | | 9.3 | | | | | | | | | | |
| 01 | 250 | | | | 8.8 | | | | | | | | | | |
| 02 | 250 | | | | 8.4 | | | | | | | | | | |
| 03 | 250 | | | | 8.0 | | | | | | | | | | |
| 04 | 240 | | | | 7.0 | | | | | | | | | | |
| 05 | 240 | | | | 6.2 | | | | | | | | | | |
| 06 | 260 | | | | 6.5 | | | | | | | | | | |
| 07 | 230 | | | | 7.4 | | | | | | | | | | |
| 08 | 250 | | | | 8.1 | | | | | | | | | | |
| 09 | 300 | | | | 8.9 | | | | | | | | | | |
| 10 | 320 | | | | 10.2 | | | | | | | | | | |
| 11 | 340 | | | | 11.3 | | | | | | | | | | |
| 12 | 340 | | | | 12.0 | | | | | | | | | | |
| 13 | 340 | | | | 12.3 | | | | | | | | | | |
| 14 | 330 | | | | 12.7 | | | | | | | | | | |
| 15 | 320 | | | | 12.8 | | | | | | | | | | |
| 16 | 310 | | | | 12.5 | | | | | | | | | | |
| 17 | 280 | | | | 12.0 | | | | | | | | | | |
| 18 | 260 | | | | 10.1 | | | | | | | | | | |
| 19 | 270 | | | | 10.8 | | | | | | | | | | |
| 20 | 270 | | | | 11.0 | | | | | | | | | | |
| 21 | 260 | | | | 11.2 | | | | | | | | | | |
| 22 | 270 | | | | 10.4 | | | | | | | | | | |
| 23 | 260 | | | | 10.1 | | | | | | | | | | |

Time: 150°0'W.
Sweep: 2.2 Mc to 16.0 Mc in one minute.

Time: 60.0°W.
Sweep: Manual operation.

Table 13 (Provisional data)

Brisbane, Australia (27.5°S, 153.0°E)

August 1946

| Time | h ¹ P2 | f ¹ P2 | h ¹ F1 | f ¹ F1 | h ¹ E | f ¹ E | f ¹ E | f ² E | F2-M3000 |
|------|-------------------|-------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|----------|
| 00 | 5.2 | | 3.0 | | 3.9 | | | | 2.8 |
| 01 | 4.8 | | 3.0 | | 4.6 | | | | 2.8 |
| 02 | 4.7 | | 3.0 | | 4.1 | | | | 2.9 |
| 03 | 4.5 | | 3.0 | | 4.2 | | | | 2.8 |
| 04 | 4.1 | | 2.8 | | 4.0 | | | | 2.9 |
| 05 | 4.0 | | 2.9 | | 4.0 | | | | 3.1 |
| 06 | 4.6 | | 3.0 | | 4.3 | | | | 3.4 |
| 07 | 7.0 | | 3.2 | | 6.6 | | | | 3.4 |
| 08 | 8.8 | | 3.2 | | 8.4 | | | | 3.2 |
| 09 | 9.8 | | 3.2 | | 9.4 | | | | 3.2 |
| 10 | 10.3 | | 3.2 | | 9.7 | | | | 3.1 |
| 11 | 10.2 | | 3.1 | | 9.9 | | | | 3.1 |
| 12 | 9.6 | | 3.1 | | 10.0 | | | | 3.0 |
| 13 | 9.3 | | 3.0 | | 9.9 | | | | 3.0 |
| 14 | 9.2 | | 3.1 | | 9.9 | | | | 3.0 |
| 15 | 9.1 | | 3.0 | | 9.6 | | | | 3.0 |
| 16 | 8.6 | | 3.1 | | 9.0 | | | | 3.0 |
| 17 | 8.2 | | 3.1 | | 8.7 | | | | 3.1 |
| 18 | 7.6 | | 3.0 | | 7.9 | | | | 3.0 |
| 19 | 6.7 | | 3.0 | | 6.4 | | | | 3.0 |
| 20 | 6.0 | | 2.9 | | 5.5 | | | | 3.0 |
| 21 | 5.8 | | 2.9 | | 4.8 | | | | 3.0 |
| 22 | 5.5 | | 2.9 | | 4.5 | | | | 2.9 |
| 23 | 5.4 | | 2.9 | | 4.1 | | | | 2.9 |

Time: Local.
Sweep: 2.2 Mc to 12.5 Mc in two minutes thirty seconds.

Table 15 (Provisional data; supersedes Table 1, CRPL-P24.)

July 1946

Clyde, Baffin I. (70.5°N, 68.6°W)

| Time | h ¹ P2 | f ¹ P2 | h ¹ F1 | f ¹ F1 | h ¹ E | f ¹ E | f ¹ E | f ² E | F2-M3000 |
|------|-------------------|-------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|----------|
| 00 | 300 | 4.3 | | | 8.4 | | | | 4.4 |
| 01 | 300 | 4.5 | | | 8.3 | | | | 4.6 |
| 02 | 330 | 4.6 | | | 7.8 | | | | 4.5 |
| 03 | 340 | 4.4 | | | 6.9 | | | | 3.6 |
| 04 | 370 | 4.3 | | | 6.3 | | | | 3.2 |
| 05 | 445 | 4.2 | | | 6.0 | | | | 2.7 |
| 06 | 490 | 4.4 | | | 6.5 | | | | 3.2 |
| 07 | 460 | 4.6 | | | 7.4 | | | | 3.0 |
| 08 | 485 | 4.6 | | | 7.5 | | | | 3.0 |
| 09 | (440) | (5.0) | | | 7.6 | | | | 2.7 |
| 10 | 445 | 5.0 | | | 5.3 | | | | 3.8 |
| 11 | | | | | 5.5 | | | | 4.0 |
| 12 | (470) | (4.8) | | | 8.8 | | | | 2.6 |
| 13 | (430) | (4.9) | | | 5.6 | | | | 2.5 |
| 14 | 450 | 4.7 | | | 12 | | | | 5.8 |
| 15 | 480 | 4.9 | | | 10.8 | | | | 4.0 |
| 16 | 440 | 5.0 | | | 10.7 | | | | 5.5 |
| 17 | 445 | 4.7 | | | 10.9 | | | | 2.6 |
| 18 | 380 | 4.7 | | | 11.0 | | | | 2.7 |
| 19 | 390 | 4.6 | | | 9.7 | | | | 4.6 |
| 20 | 345 | 4.6 | | | 8.8 | | | | 2.6 |
| 21 | 310 | 4.5 | | | 8.4 | | | | 4.0 |
| 22 | 320 | 4.5 | | | 22 | | | | 3.5 |
| 23 | 300 | 4.4 | | | 8.4 | | | | 2.6 |

Time: 75.0°W.
Sweep: 2.0 Mc to 16.0 Mc in one minute.

Table 14 (Provisional data)

Watheroo, W. Australia (30.3°S, 115.9°E)

August 1946

| Time | h ¹ P2 | f ¹ P2 | h ¹ F1 | f ¹ F1 | h ¹ E | f ¹ E | f ¹ E | f ² E | F2-M3000 |
|------|-------------------|-------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|----------|
| 00 | 5.2 | | 3.0 | | 3.9 | | | | 2.8 |
| 01 | 4.8 | | 3.0 | | 4.6 | | | | 2.8 |
| 02 | 4.7 | | 3.0 | | 4.1 | | | | 2.9 |
| 03 | 4.5 | | 3.0 | | 4.2 | | | | 2.8 |
| 04 | 4.1 | | 2.8 | | 4.0 | | | | 2.9 |
| 05 | 4.0 | | 2.9 | | 4.0 | | | | 3.1 |
| 06 | 4.6 | | 3.0 | | 4.3 | | | | 3.4 |
| 07 | 7.0 | | 3.2 | | 6.6 | | | | 3.4 |
| 08 | 8.8 | | 3.2 | | 8.4 | | | | 3.2 |
| 09 | 9.8 | | 3.2 | | 9.4 | | | | 3.2 |
| 10 | 10.3 | | 3.2 | | 9.7 | | | | 3.1 |
| 11 | 10.2 | | 3.1 | | 9.9 | | | | 3.1 |
| 12 | 9.6 | | 3.1 | | 10.0 | | | | 3.0 |
| 13 | 9.3 | | 3.0 | | 9.9 | | | | 3.0 |
| 14 | 9.2 | | 3.1 | | 9.9 | | | | 3.0 |
| 15 | 9.1 | | 3.0 | | 9.6 | | | | 3.0 |
| 16 | 8.6 | | 3.1 | | 9.0 | | | | 3.0 |
| 17 | 8.2 | | 3.1 | | 8.7 | | | | 3.1 |
| 18 | 7.6 | | 3.0 | | 7.9 | | | | 3.0 |
| 19 | 6.7 | | 3.0 | | 6.4 | | | | 3.0 |
| 20 | 6.0 | | 2.9 | | 5.5 | | | | 3.0 |
| 21 | 5.8 | | 2.9 | | 4.8 | | | | 2.9 |
| 22 | 5.5 | | 2.9 | | 4.5 | | | | 2.9 |
| 23 | 5.4 | | 2.9 | | 4.1 | | | | 2.9 |

Time: Local.
Sweep: 16.0 Mc to 0.5 Mc in fifteen minutes.

Table 15 (Provisional data)

July 1946

Ornitha I. (26.3°N, 127.8°E)

| Time | h ¹ P2 | f ¹ P2 | h ¹ F1 | f ¹ F1 | h ¹ E | f ¹ E | f ¹ E | f ² E | F2-M3000 |
|------|-------------------|-------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|----------|
| 00 | | | | | 8.4 | | | | 2.6 |
| 01 | | | | | 8.3 | | | | 2.7 |
| 02 | | | | | 7.8 | | | | 2.8 |
| 03 | | | | | 6.9 | | | | 2.7 |
| 04 | | | | | 6.3 | | | | 2.7 |
| 05 | | | | | 6.0 | | | | 2.7 |
| 06 | | | | | 6.5 | | | | 3.0 |
| 07 | | | | | 7.4 | | | | 3.1 |
| 08 | | | | | 7.5 | | | | 3.5 |
| 09 | | | | | 7.6 | | | | 3.0 |
| 10 | | | | | 7.9 | | | | 2.7 |
| 11 | | | | | 8.8 | | | | 3.8 |
| 12 | | | | | 5.6 | | | | 2.5 |
| 13 | | | | | 10.8 | | | | 5.8 |
| 14 | | | | | 10.7 | | | | 4.0 |
| 15 | | | | | 10.9 | | | | 5.5 |
| 16 | | | | | 11.1 | | | | 2.6 |
| 17 | | | | | 11.4 | | | | 5.5 |
| 18 | | | | | 18 | | | | 2.8 |
| 19 | | | | | 19 | | | | 4.7 |
| 20 | | | | | 20 | | | | 4.6 |
| 21 | | | | | 21 | | | | 4.0 |
| 22 | | | | | 22 | | | | 3.5 |
| 23 | | | | | 23 | | | | 4.0 |

Time: 135.0°E.
Sweep: 2.0 Mc to 16.0 Mc in one minute.

Table 17 (Provisional data)

| Guam I. (13.5°N, 144.8°E) | | | | | | | July 1946 | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|-------------------|-------------------|-------------------|-------------------|------------------|------------------|-----------|------|-------------------|-------------------|-------------------|-------------------|------------------|------------------|-----|------|-------------------|-------------------|-------------------|-------------------|------------------|------------------|-----|------|-------------------|-------------------|-------------------|-------------------|------------------|------------------|-----|
| Time | h ¹ F2 | f ⁰ F2 | h ¹ F1 | f ⁰ F1 | h ¹ E | f ⁰ E | FEs | Time | h ¹ F2 | f ⁰ F2 | h ¹ F1 | f ⁰ F1 | h ¹ E | f ⁰ E | FEs | Time | h ¹ F2 | f ⁰ F2 | h ¹ F1 | f ⁰ F1 | h ¹ E | f ⁰ E | FEs | Time | h ¹ F2 | f ⁰ F2 | h ¹ F1 | f ⁰ F1 | h ¹ E | f ⁰ E | FEs |
| 00 | 300 | 9.0 | | | 3.4 | 2.9 | | 00 | | 9.0 | | | | | | 00 | 2.6 | | | | | | | 2.7 | | | | | | | |
| 01 | 280 | 7.8 | | | 3.8 | 2.9 | | 01 | | 7.7 | | | | | | 01 | 1.6 | | | | | | | 2.9 | | | | | | | |
| 02 | 290 | 7.2 | | | 3.0 | 2.8 | | 02 | | 7.1 | | | | | | 02 | 1.6 | | | | | | | 2.9 | | | | | | | |
| 03 | 290 | 6.6 | | | 3.6 | 2.9 | | 03 | | 6.6 | | | | | | 03 | 1.6 | | | | | | | 2.9 | | | | | | | |
| 04 | 280 | 6.4 | | | 2.2 | 2.9 | | 04 | | 6.1 | | | | | | 04 | 1.6 | | | | | | | 3.0 | | | | | | | |
| 05 | 250 | 5.6 | | | 3.6 | 3.2 | | 05 | | 5.8 | | | | | | 05 | 1.6 | | | | | | | 3.0 | | | | | | | |
| 06 | 270 | 5.5 | | | 2.8 | 3.1 | | 06 | | 5.2 | | | | | | 06 | 1.6 | | | | | | | 3.1 | | | | | | | |
| 07 | 240 | 8.0 | | | 5.2 | 3.1 | | 07 | | 7.1 | | | | | | 07 | 2.3 | | | | | | | 3.1 | | | | | | | |
| 08 | 250 | 8.7 | 220 | | 6.5 | 3.0 | | 08 | | 7.1 | | | | | | 08 | 3.0 | | | | | | | 3.1 | | | | | | | |
| 09 | 290 | 8.9 | 210 | 5.0 | 6.5 | 2.7 | | 09 | | 8.8 | | | | | | 09 | 4.8 | | | | | | | 3.0 | | | | | | | |
| 10 | 330 | 9.7 | 210 | 5.4 | 6.0 | 2.5 | | 10 | | 9.3 | | | | | | 10 | 5.6 | | | | | | | 2.6 | | | | | | | |
| 11 | 380 | 10.2 | 200 | 5.7 | 6.1 | 2.4 | | 11 | | 10.1 | | | | | | 11 | 5.5 | | | | | | | 2.5 | | | | | | | |
| 12 | 400 | 10.8 | 200 | 5.6 | 4.2 | 6.0 | | 12 | | 10.3 | | | | | | 12 | 4.3 | | | | | | | 2.3 | | | | | | | |
| 13 | 400 | 11.0 | 200 | 5.6 | 5.9 | 2.4 | | 13 | | 10.4 | | | | | | 13 | 5.8 | | | | | | | 2.3 | | | | | | | |
| 14 | 400 | 11.5 | 200 | 5.6 | 6.2 | 2.4 | | 14 | | 10.2 | | | | | | 14 | 4.2 | | | | | | | 2.2 | | | | | | | |
| 15 | 390 | 11.8 | 220 | 5.5 | 6.6 | 2.4 | | 15 | | 10.2 | | | | | | 15 | 5.6 | | | | | | | 2.2 | | | | | | | |
| 16 | 340 | 12.2 | 220 | 5.2 | 7.0 | 2.5 | | 16 | | 10.1 | | | | | | 16 | 5.6 | | | | | | | 2.2 | | | | | | | |
| 17 | 310 | 12.6 | 230 | 4.8 | 6.2 | 2.6 | | 17 | | 10.6 | | | | | | 17 | 5.3 | | | | | | | 2.3 | | | | | | | |
| 18 | 260 | 12.1 | 280 | 11.5 | 6.8 | 2.6 | | 18 | | 10.5 | | | | | | 18 | 4.8 | | | | | | | 2.3 | | | | | | | |
| 19 | 280 | 10.6 | 350 | 10.6 | 5.2 | 2.5 | | 19 | | 10.3 | | | | | | 19 | 2.5 | | | | | | | 2.4 | | | | | | | |
| 20 | 360 | 10.2 | 360 | 10.2 | 4.8 | 2.4 | | 20 | | 10.2 | | | | | | 20 | 9.4 | | | | | | | 2.4 | | | | | | | |
| 21 | 330 | 9.5 | 330 | 9.6 | 3.6 | 2.5 | | 21 | | 8.9 | | | | | | 21 | 1.6 | | | | | | | 2.4 | | | | | | | |
| 22 | 320 | 9.6 | 320 | 9.6 | 3.4 | 2.5 | | 22 | | 9.0 | | | | | | 22 | 1.6 | | | | | | | 2.4 | | | | | | | |
| 23 | | | | | 4.0 | 2.8 | | 23 | | 8.9 | | | | | | 23 | 2.7 | | | | | | | 2.6 | | | | | | | |

Time: 150.00E.
Sweep: Manual operation.

Table 19 (Provisional data)

| Johannesburg, S. Africa (26.2°S, 28.0°E) | | | | | | | July 1946 | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------|-------------------|-------------------|-------------------|------------------|------------------|-----------|------|-------------------|-------------------|-------------------|-------------------|------------------|------------------|-----|------|-------------------|-------------------|-------------------|-------------------|------------------|------------------|-----|-----|--|--|--|--|--|
| Time | h ¹ F2 | f ⁰ F2 | h ¹ F1 | f ⁰ F1 | h ¹ E | f ⁰ E | FEs | Time | h ¹ F2 | f ⁰ F2 | h ¹ F1 | f ⁰ F1 | h ¹ E | f ⁰ E | FEs | Time | h ¹ F2 | f ⁰ F2 | h ¹ F1 | f ⁰ F1 | h ¹ E | f ⁰ E | FEs | | | | | | |
| 00 | | 2.7 | | | 3.0 | | | 00 | | 0.0 | | | | | | 00 | 0.0 | | | | | | | 3.1 | | | | | |
| 01 | | 2.8 | | | 3.0 | | | 01 | | 2.9 | | | | | | 01 | 2.8 | | | | | | | 3.1 | | | | | |
| 02 | | 2.9 | | | 3.1 | | | 02 | | 3.0 | | | | | | 02 | 2.8 | | | | | | | 3.2 | | | | | |
| 03 | | 3.0 | | | 3.1 | | | 03 | | 3.1 | | | | | | 03 | 2.7 | | | | | | | 3.2 | | | | | |
| 04 | | 2.6 | | | 3.1 | | | 04 | | 2.7 | | | | | | 04 | 2.6 | | | | | | | 3.3 | | | | | |
| 05 | | 2.6 | | | 3.1 | | | 05 | | 2.5 | | | | | | 05 | 2.5 | | | | | | | 3.2 | | | | | |
| 06 | | 2.6 | | | 3.1 | | | 06 | | 2.5 | | | | | | 06 | 2.5 | | | | | | | 3.2 | | | | | |
| 07 | | 5.7 | | | 3.1 | | | 07 | | 3.3 | | | | | | 07 | 3.3 | | | | | | | 3.4 | | | | | |
| 08 | | 8.1 | | | 3.4 | | | 08 | | 5.9 | | | | | | 08 | 5.9 | | | | | | | 3.6 | | | | | |
| 09 | | 9.0 | | | 3.4 | | | 09 | | 7.4 | | | | | | 09 | 7.4 | | | | | | | 3.6 | | | | | |
| 10 | | 9.7 | | | 3.3 | | | 10 | | 8.1 | | | | | | 10 | 8.1 | | | | | | | 3.5 | | | | | |
| 11 | | 9.5 | | | 3.3 | | | 11 | | 9.2 | | | | | | 11 | 9.2 | | | | | | | 3.4 | | | | | |
| 12 | | 9.5 | | | 3.2 | | | 12 | | 9.5 | | | | | | 12 | 9.5 | | | | | | | 3.4 | | | | | |
| 13 | | 9.5 | | | 3.1 | | | 13 | | 9.1 | | | | | | 13 | 9.1 | | | | | | | 3.4 | | | | | |
| 14 | | 9.5 | | | 3.1 | | | 14 | | 8.9 | | | | | | 14 | 8.9 | | | | | | | 3.3 | | | | | |
| 15 | | 9.5 | | | 3.1 | | | 15 | | 8.8 | | | | | | 15 | 8.8 | | | | | | | 3.3 | | | | | |
| 16 | | 9.5 | | | 3.1 | | | 16 | | 8.3 | | | | | | 16 | 8.3 | | | | | | | 3.4 | | | | | |
| 17 | | 8.9 | | | 3.2 | | | 17 | | 7.5 | | | | | | 17 | 7.5 | | | | | | | 3.3 | | | | | |
| 18 | | 6.5 | | | 3.4 | | | 18 | | 6.4 | | | | | | 18 | 6.4 | | | | | | | 3.3 | | | | | |
| 19 | | 4.5 | | | 3.3 | | | 19 | | 5.3 | | | | | | 19 | 5.3 | | | | | | | 3.2 | | | | | |
| 20 | | 3.8 | | | 3.3 | | | 20 | | 4.5 | | | | | | 20 | 4.5 | | | | | | | 3.2 | | | | | |
| 21 | | 3.2 | | | 3.2 | | | 21 | | 3.9 | | | | | | 21 | 3.9 | | | | | | | 3.1 | | | | | |
| 22 | | 2.8 | | | 3.1 | | | 22 | | 3.4 | | | | | | 22 | 3.4 | | | | | | | 3.1 | | | | | |
| 23 | | 2.8 | | | 3.1 | | | 23 | | 3.2 | | | | | | 23 | 3.2 | | | | | | | 3.1 | | | | | |

Time: 30.00E.
Sweep: 2.0 Mc to 15.0 Mc in eight seconds.

Table 20 (Provisional data)

| Robert, Tasmania (42.8°S, 147.4°E) | | | | | | | July 1946 | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|-------------------|-------------------|-------------------|-------------------|------------------|------------------|-----------|------|-------------------|-------------------|-------------------|-------------------|------------------|------------------|-----|------|-------------------|-------------------|-------------------|-------------------|------------------|------------------|-----|-----|--|--|--|--|--|
| Time | h ¹ F2 | f ⁰ F2 | h ¹ F1 | f ⁰ F1 | h ¹ E | f ⁰ E | FEs | Time | h ¹ F2 | f ⁰ F2 | h ¹ F1 | f ⁰ F1 | h ¹ E | f ⁰ E | FEs | Time | h ¹ F2 | f ⁰ F2 | h ¹ F1 | f ⁰ F1 | h ¹ E | f ⁰ E | FEs | | | | | | |
| 00 | | | | | | | | 00 | | 0.0 | | | | | | 00 | 0.0 | | | | | | | 3.1 | | | | | |
| 01 | | | | | | | | 01 | | 2.9 | | | | | | 01 | 2.9 | | | | | | | 3.2 | | | | | |
| 02 | | | | | | | | 02 | | 3.0 | | | | | | 02 | 2.8 | | | | | | | 3.2 | | | | | |
| 03 | | | | | | | | 03 | | 3.1 | | | | | | 03 | 2.8 | | | | | | | 3.2 | | | | | |
| 04 | | | | | | | | 04 | | 3.1 | | | | | | 04 | 2.7 | | | | | | | 3.2 | | | | | |
| 05 | | | | | | | | 05 | | 3.1 | | | | | | 05 | 2.6 | | | | | | | 3.3 | | | | | |
| 06 | | | | | | | | 06 | | 3.1 | | | | | | 06 | 2.5 | | | | | | | 3.2 | | | | | |

Table 21 Washington, D.C. (39°0'N, 77°5'W)
August 1946

| Time | h _{RF} | f _{RF} | h' _{RF} | f _{RF} | h _E | f _E | Time | h _{RF} | f _{RF} | h' _{RF} | f _{RF} | h _E | f _E | Time | h _{RF} | f _{RF} | h' _{RF} | f _{RF} | h _E | f _E | Time | h _{RF} | f _{RF} | h' _{RF} | f _{RF} | h _E | f _E |
|------|-----------------|-----------------|------------------|-----------------|----------------|----------------|------|-----------------|-----------------|------------------|-----------------|----------------|----------------|------|-----------------|-----------------|------------------|-----------------|----------------|----------------|------|-----------------|-----------------|------------------|-----------------|----------------|----------------|
| 00 | 280 | 5.6 | | | 2.9 | 2.8 | 00 | 300 | 4.5 | | | 1.8 | 3.5 | 2.7 | | | | | | | | | | | | | |
| 01 | 280 | 5.3 | | | 2.6 | 2.8 | 01 | 312 | 4.4 | | | 5.5 | 5.5 | 2.6 | | | | | | | | | | | | | |
| 02 | 270 | 4.9 | | | 2.6 | 2.8 | 02 | 330 | 4.8 | | | 5.0 | 5.0 | 2.6 | | | | | | | | | | | | | |
| 03 | 275 | 4.5 | | | 2.4 | 2.8 | 03 | 385 | 4.8 | | | 2.1 | 4.2 | 2.6 | | | | | | | | | | | | | |
| 04 | 275 | 4.0 | | | 2.4 | 2.8 | 04 | 425 | 5.0 | | | 2.1 | 4.2 | 2.6 | | | | | | | | | | | | | |
| 05 | 275 | 4.0 | | | 2.7 | 2.8 | 05 | 415 | 5.4 | | | 2.4 | 5.0 | 2.6 | | | | | | | | | | | | | |
| 06 | 250 | 5.2 | | | 110 | (2.0) | 06 | 460 | 5.2 | | | 2.6 | 5.1 | 2.6 | | | | | | | | | | | | | |
| 07 | 280 | 6.0 | | | 110 | 2.7 | 07 | 470 | 5.2 | | | 3.0 | 3.6 | 2.6 | | | | | | | | | | | | | |
| 08 | 315 | 6.7 | | | 110 | 3.1 | 08 | 460 | 5.4 | | | 2.3 | 4.3 | 2.5 | | | | | | | | | | | | | |
| 09 | 320 | 7.0 | | | 110 | (3.5) | 09 | 525 | 5.5 | | | 2.4 | 3.3 | 2.5 | | | | | | | | | | | | | |
| 10 | 310 | 7.2 | | | 210 | 5.1 | 10 | 495 | 5.5 | | | 2.3 | 3.3 | 2.4 | | | | | | | | | | | | | |
| 11 | 355 | 7.1 | | | 200 | 5.3 | 11 | 530 | 5.5 | | | 2.6 | 3.5 | 2.5 | | | | | | | | | | | | | |
| 12 | 380 | 7.2 | | | 210 | 5.2 | 12 | 515 | 5.6 | | | 2.5 | 3.2 | 2.4 | | | | | | | | | | | | | |
| 13 | 380 | 7.1 | | | 210 | 5.2 | 13 | 500 | 5.5 | | | 2.3 | 3.2 | 2.5 | | | | | | | | | | | | | |
| 14 | 360 | 7.4 | | | 215 | 5.2 | 14 | 510 | 5.5 | | | 2.7 | 3.3 | 2.5 | | | | | | | | | | | | | |
| 15 | 360 | 7.4 | | | 220 | 5.1 | 15 | 450 | 5.6 | | | 2.8 | 3.2 | 2.6 | | | | | | | | | | | | | |
| 16 | 340 | 7.5 | | | 220 | 4.9 | 16 | 445 | 5.7 | | | 2.6 | 3.1 | 2.6 | | | | | | | | | | | | | |
| 17 | 300 | 7.6 | | | 230 | 4.5 | 17 | 400 | 5.6 | | | 2.8 | 3.0 | 2.6 | | | | | | | | | | | | | |
| 18 | 280 | 7.8 | | | 240 | 4.0 | 18 | 320 | 5.6 | | | 2.9 | 3.0 | 2.7 | | | | | | | | | | | | | |
| 19 | 250 | (7.8) | | | 120 | 3.0 | 19 | 270 | 5.6 | | | 2.0 | 3.2 | 2.8 | | | | | | | | | | | | | |
| 20 | 240 | 7.2 | | | 250 | (2.8) | 20 | 280 | 5.5 | | | 3.1 | 2.8 | 2.8 | | | | | | | | | | | | | |
| 21 | 250 | (6.7) | | | 220 | 3.1 | 21 | 288 | 5.2 | | | 2.0 | 3.2 | 2.8 | | | | | | | | | | | | | |
| 22 | 260 | (6.0) | | | 260 | 3.1 | 22 | 272 | 5.0 | | | 2.8 | 3.9 | 2.8 | | | | | | | | | | | | | |
| 23 | 280 | (5.6) | | | 280 | 2.8 | 23 | 285 | 5.0 | | | 2.8 | 3.5 | 2.8 | | | | | | | | | | | | | |

Time: 75°0'W.
Sweep: 0.75 Mc to 11.5 Mc in 3.4 minutes.

Table 22 (Supersedes Table 3, CRDL-F24)

| Time | h _{RF} | f _{RF} | h' _{RF} | f _{RF} | h _E | f _E | Time | h _{RF} | f _{RF} | h' _{RF} | f _{RF} | h _E | f _E | Time | h _{RF} | f _{RF} | h' _{RF} | f _{RF} | h _E | f _E | Time | h _{RF} | f _{RF} | h' _{RF} | f _{RF} | h _E | f _E |
|------|-----------------|-----------------|------------------|-----------------|----------------|----------------|------|-----------------|-----------------|------------------|-----------------|----------------|----------------|------|-----------------|-----------------|------------------|-----------------|----------------|----------------|------|-----------------|-----------------|------------------|-----------------|----------------|----------------|
| 00 | 310 | 4.6 | | | 6.2 | 2.8 | 00 | 245 | 4.2 | | | 3.0 | 3.1 | | | | | | | | | | | | | | |
| 01 | 300 | 4.6 | | | 4.6 | 2.8 | 01 | 260 | 3.5 | | | 3.0 | 3.0 | | | | | | | | | | | | | | |
| 02 | 300 | 4.5 | | | 4.7 | 2.8 | 02 | 260 | 3.5 | | | 3.6 | 3.0 | | | | | | | | | | | | | | |
| 03 | 300 | 4.6 | | | 3.8 | 2.8 | 03 | 270 | 3.2 | | | 3.7 | 3.0 | | | | | | | | | | | | | | |
| 04 | 320 | 4.5 | | | 3.7 | 2.8 | 04 | 270 | 3.2 | | | 3.2 | 3.0 | | | | | | | | | | | | | | |
| 05 | 385 | 4.6 | | | 140 | 2.8 | 05 | 330 | 4.1 | | | 3.2 | 3.2 | | | | | | | | | | | | | | |
| 06 | 340 | 5.0 | | | 140 | 2.9 | 06 | 380 | 4.8 | | | 2.0 | 3.7 | 2.8 | | | | | | | | | | | | | |
| 07 | 465 | 5.0 | | | 130 | 3.0 | 07 | 390 | 5.2 | | | 2.0 | 4.0 | 2.6 | | | | | | | | | | | | | |
| 08 | 520 | 5.0 | | | 120 | 3.5 | 08 | 415 | 5.2 | | | 1.90 | 4.2 | 2.8 | | | | | | | | | | | | | |
| 09 | 460 | 5.4 | | | 125 | 3.6 | 09 | 430 | 5.5 | | | 180 | 4.4 | 2.7 | | | | | | | | | | | | | |
| 10 | 470 | 5.5 | | | 120 | 3.8 | 10 | 470 | 5.6 | | | 170 | 4.6 | 2.6 | | | | | | | | | | | | | |
| 11 | 480 | 5.6 | | | 120 | 3.6 | 11 | 410 | 5.8 | | | 170 | 4.8 | 2.6 | | | | | | | | | | | | | |
| 12 | 440 | 6.0 | | | 120 | 3.6 | 12 | 420 | 5.8 | | | 180 | 4.8 | 2.6 | | | | | | | | | | | | | |
| 13 | 425 | 6.2 | | | 120 | 3.5 | 13 | 420 | 5.7 | | | 180 | 4.9 | 2.6 | | | | | | | | | | | | | |
| 14 | 430 | 6.2 | | | 120 | 3.6 | 14 | 430 | 5.7 | | | 180 | 4.9 | 2.6 | | | | | | | | | | | | | |
| 15 | 420 | 6.1 | | | 120 | 3.5 | 15 | 410 | 5.8 | | | 180 | 4.9 | 2.7 | | | | | | | | | | | | | |
| 16 | 410 | 6.2 | | | 120 | 3.4 | 16 | 400 | 5.8 | | | 180 | 4.7 | 2.6 | | | | | | | | | | | | | |
| 17 | 380 | 6.2 | | | 120 | 3.3 | 17 | 370 | 5.8 | | | 180 | 4.6 | 2.6 | | | | | | | | | | | | | |
| 18 | 350 | 6.1 | | | 130 | 3.2 | 18 | 320 | 5.8 | | | 190 | 4.6 | 2.6 | | | | | | | | | | | | | |
| 19 | 340 | 5.8 | | | 130 | 3.1 | 19 | 280 | 6.0 | | | 190 | 4.3 | 2.6 | | | | | | | | | | | | | |
| 20 | 290 | 5.5 | | | 130 | 3.0 | 20 | 240 | 5.9 | | | 210 | 3.4 | 2.2 | | | | | | | | | | | | | |
| 21 | 320 | 5.0 | | | 120 | 2.9 | 21 | 220 | 5.7 | | | 220 | 5.2 | 2.2 | | | | | | | | | | | | | |
| 22 | 320 | 4.9 | | | 120 | 2.8 | 22 | 220 | 5.2 | | | 225 | 4.9 | 2.1 | | | | | | | | | | | | | |
| 23 | 320 | 5.0 | | | 120 | 2.8 | 23 | 225 | 4.9 | | | 225 | 3.8 | 2.1 | | | | | | | | | | | | | |

Time: 90.0'W.
Sweep: 2.0 Mc to 16.0 Mc in one minute.

Table 22 (Supersedes Table 4, CRPL-F24)

| Time | h _{RF} | f _{RF} | h' _{RF} | f _{RF} | h _E | f _E | Time | h _{RF} | f _{RF} | h' _{RF} | f _{RF} | h _E | f _E | Time | h _{RF} | f _{RF} | h' _{RF} | f _{RF} | h _E | f _E | Time | h _{RF} | f _{RF} | h' _{RF} | f _{RF} | h _E | f _E | |
|------|-----------------|-----------------|------------------|-----------------|----------------|----------------|------|-----------------|-----------------|------------------|-----------------|----------------|----------------|------|-----------------|-----------------|------------------|-----------------|----------------|----------------|------|-----------------|-----------------|------------------|-----------------|----------------|----------------|--|
| 00 | 300 | 4.6 | | | 4.6 | 2.8 | 00 | 245 | 4.2 | | | 3.0 | 3.1 | | | | | | | | | | | | | | | |
| 01 | 300 | 4.6 | | | 4.7 | 2.8 | 01 | 260 | 3.5 | | | 3.0 | 3.0 | | | | | | | | | | | | | | | |
| 02 | 300 | 4.5 | | | 3.8 | 2.8 | 02 | 260 | 3.5 | | | 3.6 | 3.0 | | | | | | | | | | | | | | | |
| 03 | 300 | 4.6 | | | 3.8 | 2.8 | 03 | 270 | 3.2 | | | 3.7 | 3.0 | | | | | | | | | | | | | | | |
| 04 | 320 | 4.5 | | | 3.7 | 2.8 | 04 | 270 | 3.2 | | | 3.2 | 3.0 | | | | | | | | | | | | | | | |
| 05 | 385 | 4.6 | | | 140 | 2.8 | 05 | 330 | 4.1 | | | 3.2 | 3.2 | | | | | | | | | | | | | | | |
| 06 | 340 | 5.0 | | | 140 | 2.9 | 06 | 380 | 4.8 | | | 2.0 | 3.7 | 2.8 | | | | | | | | | | | | | | |
| 07 | 465 | 5.0 | | | 130 | 3.0 | 07 | 390 | 5.2 | | | 2.0 | 4.0 | 2.6 | | | | | | | | | | | | | | |
| 08 | 520 | 5.0 | | | 130 | 3.5 | 08 | 415 | 5.2 | | | 1.90 | 4.2 | 2.8 | | | | | | | | | | | | | | |
| 09 | 460 | 5.4 | | | 125 | 3.6 | 09 | 430 | 5.5 | | | 180 | 4.4 | 2.7 | | | | | | | | | | | | | | |
| 10 | 470 | 5.5 | | | 120 | 3.8 | 10 | 470 | 5.6 | | | 170 | 4.6 | 2.6 | | | | | | | | | | | | | | |
| 11 | 480 | 5.6 | | | 120 | 3.6 | 11 | 410 | 5.8 | | | 170 | 4.8 | 2.6 | | | | | | | | | | | | | | |
| 12 | 440 | 6.0 | | | 120 | 3.6 | 12 | 420 | 5.8 | | | 180 | | | | | | | | | | | | | | | | |

Table 25

| The Pas, Manitoba (54.0°N, 101.0°W) | | | | | | | | July 1946 | | | | | | | |
|-------------------------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|------------------|-----------|-------------------|-------------------|------------------|------------------|------------------|------------------|--|
| Time | h ¹ F2 | f ² F2 | h ¹ H | f ² H | h ¹ E | f ² E | f ² E | Time | h ¹ F2 | f ² F2 | h ¹ H | f ² H | f ² E | f ² E | |
| 00 | 300 | 4.3 | | | | | | 5.9 | (2.6) | | | | | | |
| 01 | 230 | 2.6 | | | | | | 5.0 | (2.5) | | | | | | |
| 02 | 355 | 4.1 | | | | | | 5.2 | (2.4) | | | | | | |
| 03 | 350 | 4.6 | | | | | | 4.4 | (2.4) | | | | | | |
| 04 | 330 | 4.4 | | | | | | 4.0 | (2.5) | | | | | | |
| 05 | 350 | 4.2 | | | | | | 3.0 | (2.6) | | | | | | |
| 06 | 380 | 4.8 | 260 | 3.7 | | | | 4.0 | (2.3) | | | | | | |
| 07 | 420 | 4.8 | 235 | 4.0 | 110 | 2.9 | | 2.5 | | | | | | | |
| 08 | 450 | 5.0 | 215 | 4.3 | 100 | 2.4 | | | | | | | | | |
| 09 | 490 | 5.2 | 210 | 4.4 | 100 | 3.0 | | | | | | | | | |
| 10 | 500 | 5.2 | 200 | 4.6 | 100 | 3.0 | | | | | | | | | |
| 11 | 520 | 5.3 | 200 | 4.6 | 100 | 3.5 | | | | | | | | | |
| 12 | 470 | 5.5 | 205 | 4.7 | 100 | 3.5 | | | | | | | | | |
| 13 | 475 | 5.4 | 215 | 4.8 | 100 | 3.5 | | | | | | | | | |
| 14 | 485 | 5.8 | 210 | 4.8 | 100 | 3.4 | | | | | | | | | |
| 15 | 430 | 5.7 | 200 | 4.6 | 100 | 3.4 | | | | | | | | | |
| 16 | 430 | 5.6 | 210 | 4.6 | 100 | 3.4 | | | | | | | | | |
| 17 | 390 | 5.0 | 215 | 4.6 | 110 | 3.2 | | | | | | | | | |
| 18 | 360 | 5.6 | 215 | 4.3 | 100 | 2.9 | | | | | | | | | |
| 19 | 315 | 6.0 | 240 | 4.0 | 110 | 2.6 | | | | | | | | | |
| 20 | 260 | 6.0 | 120 | 4.0 | 120 | 2.7 | | | | | | | | | |
| 21 | 250 | 5.5 | 115 | 2.0 | 240 | 2.6 | | | | | | | | | |
| 22 | 270 | 4.8 | 110 | 2.6 | 250 | 2.7 | | | | | | | | | |
| 23 | 275 | 4.8 | 110 | 2.6 | 240 | 2.8 | | | | | | | | | |

Time: 90.0°W.
Sweep: 1.2 Mc to 16.0 Mc in approximately two minutes.

Table 26

| Adak, Alaska (51.9°N, 176.6°W) | | | | | | | | July 1946 | | | | | | | |
|--------------------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|------------------|-----------|-------------------|-------------------|------------------|------------------|------------------|------------------|--|
| Time | h ¹ F2 | f ² F2 | h ¹ H | f ² H | h ¹ E | f ² E | f ² E | Time | h ¹ F2 | f ² F2 | h ¹ H | f ² H | f ² E | f ² E | |
| 00 | 280 | 5.5 | | | | | | 5.9 | (2.6) | | | | | | |
| 01 | 01 | | | | | | | 5.0 | (2.5) | | | | | | |
| 02 | 02 | | | | | | | 5.2 | (2.4) | | | | | | |
| 03 | 03 | | | | | | | 4.4 | (2.4) | | | | | | |
| 04 | 04 | | | | | | | 4.0 | (2.5) | | | | | | |
| 05 | 05 | | | | | | | 3.0 | (2.6) | | | | | | |
| 06 | 06 | | | | | | | 3.0 | (2.6) | | | | | | |
| 07 | 07 | | | | | | | 3.0 | (3.1) | | | | | | |
| 08 | 08 | | | | | | | 3.4 | (3.1) | | | | | | |
| 09 | 09 | | | | | | | 3.0 | (3.1) | | | | | | |
| 10 | 10 | | | | | | | 3.0 | (3.1) | | | | | | |
| 11 | 11 | | | | | | | 2.8 | (3.2) | | | | | | |
| 12 | 12 | | | | | | | 2.8 | (3.2) | | | | | | |
| 13 | 13 | | | | | | | 2.8 | (3.2) | | | | | | |
| 14 | 14 | | | | | | | 2.8 | (3.2) | | | | | | |
| 15 | 15 | | | | | | | 2.8 | (3.2) | | | | | | |
| 16 | 16 | | | | | | | 2.8 | (3.2) | | | | | | |
| 17 | 17 | | | | | | | 2.8 | (3.2) | | | | | | |
| 18 | 18 | | | | | | | 2.8 | (3.2) | | | | | | |
| 19 | 19 | | | | | | | 2.8 | (3.2) | | | | | | |
| 20 | 20 | | | | | | | 2.8 | (3.2) | | | | | | |
| 21 | 21 | | | | | | | 2.8 | (3.2) | | | | | | |
| 22 | 22 | | | | | | | 2.8 | (3.2) | | | | | | |
| 23 | 23 | | | | | | | 2.8 | (3.2) | | | | | | |

Time: 180.0°W.
Sweep: Manual operation.

Table 26 (Supersedes Table 5, CRPL-F24)

| Adak, Alaska (51.9°N, 176.6°W) | | | | | | | | July 1946 | | | | | | | |
|--------------------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|------------------|-----------|-------------------|-------------------|------------------|------------------|------------------|------------------|--|
| Time | h ¹ F2 | f ² F2 | h ¹ H | f ² H | h ¹ E | f ² E | f ² E | Time | h ¹ F2 | f ² F2 | h ¹ H | f ² H | f ² E | f ² E | |
| 00 | 280 | 5.5 | | | | | | 5.9 | (2.6) | | | | | | |
| 01 | 01 | | | | | | | 5.0 | (2.5) | | | | | | |
| 02 | 02 | | | | | | | 5.2 | (2.4) | | | | | | |
| 03 | 03 | | | | | | | 4.4 | (2.4) | | | | | | |
| 04 | 04 | | | | | | | 4.0 | (2.5) | | | | | | |
| 05 | 05 | | | | | | | 3.0 | (2.6) | | | | | | |
| 06 | 06 | | | | | | | 3.0 | (3.1) | | | | | | |
| 07 | 07 | | | | | | | 3.0 | (3.1) | | | | | | |
| 08 | 08 | | | | | | | 3.4 | (3.1) | | | | | | |
| 09 | 09 | | | | | | | 3.0 | (3.1) | | | | | | |
| 10 | 10 | | | | | | | 3.0 | (3.1) | | | | | | |
| 11 | 11 | | | | | | | 2.8 | (3.2) | | | | | | |
| 12 | 12 | | | | | | | 2.8 | (3.2) | | | | | | |
| 13 | 13 | | | | | | | 2.8 | (3.2) | | | | | | |
| 14 | 14 | | | | | | | 2.8 | (3.2) | | | | | | |
| 15 | 15 | | | | | | | 2.8 | (3.2) | | | | | | |
| 16 | 16 | | | | | | | 2.8 | (3.2) | | | | | | |
| 17 | 17 | | | | | | | 2.8 | (3.2) | | | | | | |
| 18 | 18 | | | | | | | 2.8 | (3.2) | | | | | | |
| 19 | 19 | | | | | | | 2.8 | (3.2) | | | | | | |
| 20 | 20 | | | | | | | 2.8 | (3.2) | | | | | | |
| 21 | 21 | | | | | | | 2.8 | (3.2) | | | | | | |
| 22 | 22 | | | | | | | 2.8 | (3.2) | | | | | | |
| 23 | 23 | | | | | | | 2.8 | (3.2) | | | | | | |

Time: 180.0°W.
Sweep: Manual operation.

Table 27 (Supersedes Table 6, CRPL-F24)

| St. John's, Newfoundland (47.6°N, 52.7°W) | | | | | | | | July 1946 | | | | | | | |
|---|-------------------|-------------------|------------------|------------------|------------------|------------------|------------------|-----------|-------------------|-------------------|------------------|------------------|------------------|------------------|--|
| Time | h ¹ F2 | f ² F2 | h ¹ H | f ² H | h ¹ E | f ² E | f ² E | Time | h ¹ F2 | f ² F2 | h ¹ H | f ² H | f ² E | f ² E | |
| 00 | 260 | 5.9 | | | | | | 3.0 | (2.6) | | | | | | |
| 01 | 260 | 5.9 | | | | | | 3.0 | (3.1) | | | | | | |
| 02 | 240 | 5.3 | | | | | | 3.4 | (3.1) | | | | | | |
| 03 | 250 | 5.8 | | | | | | 3.0 | (3.1) | | | | | | |
| 04 | 260 | 4.4 | | | | | | 3.0 | (3.1) | | | | | | |
| 05 | 230 | 4.4 | | | | | | 3.0 | (3.1) | | | | | | |
| 06 | 230 | 5.0 | | | | | | 3.0 | (3.1) | | | | | | |
| 07 | 270 | 5.1 | | | | | | 3.0 | (3.1) | | | | | | |
| 08 | 300 | 5.0 | | | | | | 3.0 | (3.1) | | | | | | |
| 09 | 310 | 5.8 | | | | | | 3.0 | (3.1) | | | | | | |
| 10 | 320 | 6.0 | | | | | | 3.0 | (3.1) | | | | | | |
| 11 | 330 | 6.2 | | | | | | 3.0 | (3.1) | | | | | | |
| 12 | 370 | 6.1 | | | | | | 3.0 | (3.1) | | | | | | |
| 13 | 355 | 6.1 | | | | | | 3.0 | (3.1) | | | | | | |
| 14 | 330 | 6.0 | | | | | | 3.0 | (3.1) | | | | | | |
| 15 | 320 | 6.4 | | | | | | 3.0 | (3.1) | | | | | | |
| 16 | 320 | 6.7 | | | | | | 3.0 | (3.1) | | | | | | |
| 17 | 310 | 6.8 | | | | | | 3.0 | (3.1) | | | | | | |
| 18 | 270 | 6.8 | | | | | | 3.0 | (3.1) | | | | | | |
| 19 | 260 | 7.0 | | | | | | 3.0 | (3.1) | | | | | | |
| 20 | 240 | 7.0 | | | | | | 3.0 | (3.1) | | | | | | |
| 21 | 240 | 6.8 | | | | | | 3.0 | (3.1) | | | | | | |
| 22 | 250 | 6.6 | | | | | | 3.0 | (3.1) | | | | | | |
| 23 | 255 | 6.6 | | | | | | 3.0 | (3.1) | | | | | | |

Time: 180.0°W.
Sweep: Manual operation.

Table 28 (Supersedes Table 7, CRFL-F24)

| Ottawa, Canada (45.5°N, 75.8°W) | | | | | | | | July 1946 | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Time | h¹F2 | f²F2 | h¹H | f²H | h¹E | f²E | f²E | Time | h¹F2 | f²F2</th |

Table 29 (Supersedes Table 8, CRPL-F2A)

Boston, Massachusetts (42.4°N, 71.2°W)

San Francisco, California (37.4°N, 122.2°W)

July 1946

July 1946

| Time | h F2 | f0F2 | h' F1 | f0F1 | h' E | f0E | f0E | F2-M5000 |
|------|-------|-------|-------|------|------|-----|-----|----------|
| 00 | 300 | 6.1 | | | | 2.7 | | |
| 01 | 300 | 5.4 | | | | 2.6 | | |
| 02 | 300 | 4.9 | | | | 2.7 | | |
| 03 | 295 | 4.6 | | | | 2.7 | | |
| 04 | 290 | 4.6 | | | | 2.7 | | |
| 05 | 275 | 4.3 | | | | 2.8 | | |
| 06 | 300 | 4.6 | | | | 2.8 | | |
| 07 | 300 | 5.1 | | | | 2.8 | | |
| 08 | 300 | 5.6 | 250 | 1.9 | 125 | 2.0 | | |
| 09 | 350 | 6.0 | 250 | 4.2 | 140 | 2.7 | | |
| 10 | 378 | 6.5 | 255 | 4.5 | | | | |
| 11 | 420 | 6.6 | 250 | 4.7 | | | | |
| 12 | (450) | (6.5) | 245 | 4.8 | | | | |
| 13 | 400 | 6.6 | | | | 2.5 | | |
| 14 | (450) | (6.7) | | | | 2.7 | | |
| 15 | (450) | (6.5) | | | | 2.6 | | |
| 16 | 400 | 6.8 | 260 | 4.9 | | 2.6 | | |
| 17 | 400 | 6.5 | 275 | 4.7 | | 2.6 | | |
| 18 | 350 | 6.8 | 350 | 4.9 | | 2.7 | | |
| 19 | 318 | 6.6 | | | | 2.7 | | |
| 20 | 300 | 6.7 | | | | 2.7 | | |
| 21 | 280 | 6.6 | | | | 2.7 | | |
| 22 | 292 | 6.7 | | | | 2.7 | | |
| 23 | 295 | 6.5 | | | | 2.6 | | |

Time: 75.0°W.
Sweep: 0.85 Mc to 13.75 Mc in one minute.

Table 21

| Time | h F2 | f0F2 | h' F1 | f0F1 | h' E | f0E | f0E | F2-M5000 |
|------|------|------|-------|------|------|-----|-----|----------|
| 00 | 275 | 7.5 | | | | 4.0 | 2.9 | |
| 01 | 260 | 7.4 | | | | 3.4 | 3.0 | |
| 02 | 250 | 7.2 | | | | 3.8 | 3.0 | |
| 03 | 260 | 6.4 | | | | 3.2 | 3.0 | |
| 04 | 270 | 6.2 | | | | 3.0 | 3.0 | |
| 05 | 250 | 6.4 | 240 | 1.8 | 105 | 2.5 | 3.0 | |
| 06 | 240 | 7.6 | 210 | 4.6 | 100 | 3.0 | 3.1 | |
| 07 | 270 | 7.6 | 210 | 4.6 | 100 | 5.1 | 3.2 | |
| 08 | 260 | 7.8 | 200 | 5.0 | 100 | 3.4 | 5.2 | |
| 09 | 300 | 7.7 | 190 | 5.3 | 100 | 3.6 | 5.1 | |
| 10 | 300 | 7.9 | 200 | 5.2 | 100 | 3.8 | 5.1 | |
| 11 | 320 | 8.2 | 200 | 5.6 | 100 | 3.8 | 5.1 | |
| 12 | 320 | 8.5 | 250 | 5.4 | 100 | 6.4 | 3.0 | |
| 13 | 310 | 8.8 | 220 | 5.4 | 100 | 7.9 | 3.0 | |
| 14 | 310 | 8.8 | 215 | 5.4 | 100 | 3.9 | 6.8 | |
| 15 | 300 | 8.5 | 220 | 5.2 | 100 | 3.7 | 5.6 | |
| 16 | 300 | 8.1 | 210 | 4.9 | 100 | 3.5 | 5.6 | |
| 17 | 270 | 8.1 | 210 | 4.6 | 100 | 3.1 | 5.4 | |
| 18 | 260 | 8.2 | 210 | 3.8 | 100 | 2.5 | 5.2 | |
| 19 | 230 | 7.6 | 235 | | | | | |
| 20 | 240 | 7.6 | | | | | | |
| 21 | 280 | 7.7 | | | | | | |
| 22 | 270 | 7.6 | | | | | | |
| 23 | 270 | 7.5 | | | | | | |

Time: 75.0°W.
Sweep: 0.85 Mc to 13.75 Mc in one minute.

Table 22

| Time | h F2 | f0F2 | h' F1 | f0F1 | h' E | f0E | f0E | F2-M5000 |
|------|------|------|-------|------|------|-----|-----|----------|
| 00 | 300 | 5.5 | | | | 3.6 | 2.3 | |
| 01 | 300 | 5.0 | | | | 4.0 | 2.8 | |
| 02 | 300 | 4.8 | | | | 4.5 | 2.0 | |
| 03 | 300 | 4.7 | | | | 4.8 | 2.0 | |
| 04 | 300 | 4.7 | | | | 4.7 | 2.0 | |
| 05 | 300 | 4.6 | | | | 4.6 | 2.0 | |
| 06 | 300 | 5.5 | | | | 4.6 | 2.3 | |
| 07 | 305 | 6.4 | | | | 4.0 | 2.2 | |
| 08 | 345 | 7.3 | | | | 4.5 | 2.2 | |
| 09 | 350 | 8.0 | | | | 4.8 | 2.2 | |
| 10 | 370 | 8.2 | | | | 4.7 | 2.2 | |
| 11 | 370 | 8.1 | | | | 4.7 | 2.2 | |
| 12 | 380 | 8.6 | | | | 5.1 | 2.2 | |
| 13 | 360 | 8.8 | | | | 5.2 | 2.2 | |
| 14 | 360 | 8.2 | | | | 5.1 | 2.2 | |
| 15 | 360 | 8.4 | | | | 5.1 | 2.2 | |
| 16 | 350 | 8.6 | | | | 5.1 | 2.2 | |
| 17 | 310 | 8.2 | | | | 4.4 | 2.0 | |
| 18 | 290 | 8.0 | | | | 4.4 | 2.0 | |
| 19 | 260 | 7.4 | | | | 4.0 | 1.8 | |
| 20 | 250 | 6.6 | | | | 4.0 | 1.8 | |
| 21 | 250 | 6.4 | | | | 4.0 | 1.8 | |
| 22 | 270 | 6.0 | | | | 4.0 | 1.8 | |
| 23 | 290 | 5.8 | | | | 4.0 | 1.8 | |

Time: 75.0°W.
Sweep: 0.85 Mc to 13.75 Mc in one minute.

Table 23

| Time | h F2 | f0F2 | h' F1 | f0F1 | h' E | f0E | f0E | F2-M5000 |
|------|------|------|-------|------|------|-----|-----|----------|
| 00 | 300 | 5.4 | | | | 3.6 | 2.3 | |
| 01 | 300 | 5.0 | | | | 4.2 | 2.8 | |
| 02 | 300 | 4.8 | | | | 4.5 | 2.0 | |
| 03 | 300 | 4.7 | | | | 4.8 | 2.0 | |
| 04 | 300 | 4.7 | | | | 4.7 | 2.0 | |
| 05 | 300 | 4.6 | | | | 4.6 | 2.0 | |
| 06 | 300 | 5.4 | | | | 4.0 | 2.2 | |
| 07 | 305 | 6.4 | | | | 4.5 | 2.2 | |
| 08 | 345 | 7.3 | | | | 4.8 | 2.2 | |
| 09 | 350 | 8.0 | | | | 5.1 | 2.2 | |
| 10 | 370 | 8.2 | | | | 5.0 | 2.2 | |
| 11 | 370 | 8.1 | | | | 5.1 | 2.2 | |
| 12 | 380 | 8.6 | | | | 5.2 | 2.2 | |
| 13 | 360 | 8.8 | | | | 5.2 | 2.2 | |
| 14 | 360 | 8.2 | | | | 5.1 | 2.2 | |
| 15 | 360 | 8.4 | | | | 5.1 | 2.2 | |
| 16 | 350 | 8.6 | | | | 5.1 | 2.2 | |
| 17 | 310 | 8.2 | | | | 4.4 | 2.0 | |
| 18 | 290 | 8.0 | | | | 4.4 | 2.0 | |
| 19 | 260 | 7.4 | | | | 4.0 | 1.8 | |
| 20 | 250 | 6.6 | | | | 4.0 | 1.8 | |
| 21 | 250 | 6.4 | | | | 4.0 | 1.8 | |
| 22 | 270 | 6.0 | | | | 4.0 | 1.8 | |
| 23 | 290 | 5.8 | | | | 4.0 | 1.8 | |

Time: 75.0°W.
Sweep: 0.85 Mc to 13.75 Mc in one minute.

Table 24

| Time | h F2 | f0F2 | h' F1 | f0F1 | h' E | f0E | f0E | F2-M5000 |
|------|------|------|-------|------|------|-----|-----|----------|
| 00 | 300 | 5.0 | | | | 3.8 | 2.4 | |
| 01 | 300 | 4.9 | | | | 4.3 | 2.0 | |
| 02 | 300 | 4.8 | | | | 4.8 | 2.0 | |
| 03 | 300 | 4.8 | | | | 4.8 | 2.0 | |
| 04 | 300 | 4.7 | | | | 4.9 | 2.0 | |
| 05 | 295 | 4.0 | | | | 5.1 | 2.0 | |
| 06 | 370 | 4.9 | | | | 5.2 | 2.0 | |
| 07 | 400 | 5.8 | | | | 5.3 | 2.0 | |
| 08 | 400 | 5.8 | | | | 5.3 | 2.0 | |
| 09 | 360 | 7.0 | | | | 5.2 | 2.0 | |
| 10 | 380 | 7.4 | | | | 5.0 | 2.0 | |
| 11 | 380 | 7.6 | | | | 5.1 | 2.0 | |
| 12 | 370 | 8.0 | | | | 5.2 | 2.0 | |
| 13 | 360 | 8.8 | | | | 5.2 | 2.0 | |
| 14 | 360 | 8.2 | | | | 5.1 | 2.0 | |
| 15 | 360 | 8.4 | | | | 5.1 | 2.0 | |
| 16 | 350 | 8.6 | | | | 5.1 | 2.0 | |
| 17 | 310 | 8.2 | | | | 4.4 | 2.0 | |
| 18 | 290 | 8.0 | | | | 4.4 | 2.0 | |
| 19 | 260 | 7.4 | | | | 4.0 | 1.8 | |
| 20 | 250 | 6.6 | | | | 4.0 | 1.8 | |
| 21 | 250 | 6.4 | | | | 4.0 | 1.8 | |
| 22 | 270 | 6.0 | | | | 4.0 | 1.8 | |
| 23 | 290 | 5.8 | | | | 4.0 | 1.8 | |

Time: 75.0°W.
Sweep: 0.85 Mc to 13.75 Mc in one minute.

Table 25

| Time | h F2 | f0F2 | h' F1 | f0F1 | h' E | f0E | f0E | F2-M5000 |
|------|------|------|-------|------|------|-----|-----|----------|
| 00 | 300 | 5.0 | | | | 3.8 | 2.4 | |
| 01 | 300 | 4.9 | | | | 4.3 | 2.0 | |
| 02 | 300 | 4.8 | | | | 4.8 | 2.0 | |
| 03 | 300 | 4.8 | | | | 4.8 | 2.0 | |
| 04 | 300 | 4.7 | | | | 4.9 | 2.0 | |
| 05 | 295 | 4.0 | | | | 5.1 | 2.0 | |
| 06 | 370 | 4.9 | | | | 5.2 | 2.0 | |
| 07 | 400 | 5.8 | | | | 5.3 | 2.0 | |
| 08 | 400 | 5.8 | | | | 5.3 | 2.0 | |
| 09 | 360 | 7.0 | | | | 5.2 | 2.0 | |
| 10 | 380 | 7.4 | | | | 5.1 | 2.0 | |
| 11 | 380 | 7.6 | | | | 5.2 | 2.0 | |
| 12 | 370 | 8.0 | | | | 5.2 | 2.0 | |
| 13 | 360 | 8.8 | | | | 5.2 | 2.0 | |
| 14 | 360 | 8.2 | | | | 5.1 | 2.0 | |
| 15 | 360 | 8.4 | | | | 5.1 | 2.0 | |
| 16 | 350 | 8.6 | | | | 5.1 | 2.0 | |
| 17 | 310 | 8.2 | | | | 4.4 | 2.0 | |
| 18 | 290 | 8.0 | | | | 4.4 | 2.0 | |
| 19 | 260 | 7.4 | | | | 4.0 | 1.8 | |
| 20 | 250 | 6.6 | | | | 4.0 | 1.8 | |
| 21 | 250 | 6.4 | | | | 4.0 | 1.8 | |
| 22 | 270 | 6.0 | | | | 4.0 | 1.8 | |
| 23 | 290 | 5.8 | | | | 4.0 | 1.8 | |

Time: 75.0°W.
Sweep: 0.85 Mc to 13.75 Mc in one minute.

Table 26

| Time | h F2 | f0F2 | h' F1 | f0F1 | h' E | f0E | f0E | F2-M5000 |
|------|------|------|-------|------|------|-----|-----|----------|
| 00 | 300 | 5.0 | | | | 3.8 | 2.4 | |
| 01 | 300 | 4.9 | | | | 4.3 | 2.0 | |
| 02 | 300 | 4.8 | | | | 4.8 | 2.0 | |
| 03 | 300 | 4.8 | | | </ | | | |

Table 33

Maui, Hawaii (20.8°N, 156.5°W)

July 1946

| Time | h'F2 | f'F2 | h'F1 | f'F1 | h'E | f'F1 | fOE | f'F2 | fOE | F2-M3000 |
|------|------|------|------|------|-----|------|-----|------|-----|----------|
| 00 | 275 | 8.0 | | | 2.8 | | | 7.6 | | 2.7 |
| 01 | 270 | 7.8 | | | 2.8 | | | 7.4 | | 2.8 |
| 02 | 270 | 7.1 | | | 2.8 | | | 7.2 | | 2.8 |
| 03 | 270 | 6.8 | | | 2.8 | | | 6.5 | | 2.7 |
| 04 | 290 | 5.9 | | | 2.8 | | | 6.6 | | 2.8 |
| 05 | 280 | 5.4 | | | 2.8 | | | 5.8 | | 2.8 |
| 06 | 260 | 5.4 | | | 2.9 | | | 5.5 | | 2.9 |
| 07 | 250 | 6.8 | 250 | 3.2 | 2.7 | 3.0 | | 220 | 4.4 | 2.8 |
| 08 | 250 | 7.0 | | | 2.8 | | | 220 | 4.4 | 2.8 |
| 09 | 350 | 7.9 | 240 | 5.0 | 2.4 | 2.4 | | 275 | 5.0 | 2.7 |
| 10 | 400 | 9.0 | 230 | 5.5 | 2.3 | 2.3 | | 400 | 5.4 | 2.6 |
| 11 | 420 | 9.4 | 210 | 5.4 | 2.4 | 2.4 | | 420 | 5.6 | 2.6 |
| 12 | 405 | 9.9 | 220 | 5.5 | 2.5 | 2.5 | | 400 | 5.3 | 2.5 |
| 13 | 380 | 10.4 | 220 | 5.5 | 2.6 | 2.6 | | 380 | 5.3 | 2.5 |
| 14 | 360 | 11.0 | 220 | 5.4 | 2.7 | 2.7 | | 400 | 5.9 | 2.6 |
| 15 | 350 | 11.5 | 230 | 5.2 | 2.7 | 2.7 | | 380 | 5.2 | 2.6 |
| 16 | 320 | 11.4 | 230 | 5.1 | 2.8 | 2.8 | | 370 | 5.2 | 2.7 |
| 17 | 300 | 11.3 | 240 | 4.9 | 3.0 | 3.0 | | 355 | 5.0 | 2.7 |
| 18 | 255 | 10.3 | 240 | 4.0 | 3.0 | 3.0 | | 320 | 4.5 | 2.8 |
| 19 | 250 | 9.5 | | | 2.9 | 2.9 | | 300 | 4.4 | 2.8 |
| 20 | 265 | 8.9 | | | 2.7 | 2.7 | | 280 | 4.4 | 2.8 |
| 21 | 300 | 9.0 | | | 2.7 | 2.7 | | 260 | 4.4 | 2.8 |
| 22 | 290 | 9.0 | | | 2.7 | 2.7 | | 240 | 4.4 | 2.8 |
| 23 | 290 | 8.4 | | | 2.7 | 2.7 | | 220 | 4.4 | 2.8 |

Time: 150.0%.
Sweep: 2.2 Mc to 16.0 Mc in one minute.

Table 35 (Supersedes Table 11, CRPL-F24)

Trinidad, British West Indies (10.6°N, 61.2°W)

July 1946

| Time | h'F2 | f'F2 | h'F1 | f'F1 | h'E | f'F1 | fOE | f'F2 | fOE | F2-M3000 |
|------|------|------|------|------|-----|------|-----|------|-----|----------|
| 00 | 260 | 9.4 | | | 2.9 | | | 220 | 7.0 | 3.1 |
| 01 | 255 | 9.0 | | | 2.9 | | | 220 | 7.0 | 3.1 |
| 02 | 250 | 8.4 | | | 2.9 | | | 230 | 6.6 | 3.1 |
| 03 | 260 | 7.8 | | | 3.0 | | | 230 | 5.6 | 3.2 |
| 04 | 250 | 7.0 | | | 3.1 | | | 240 | 4.8 | 3.1 |
| 05 | 260 | 6.4 | | | 3.1 | | | 240 | 4.1 | 3.1 |
| 06 | 250 | 6.8 | | | 3.2 | | | 280 | 4.3 | 3.1 |
| 07 | 260 | 7.2 | | | 3.1 | | | 260 | 4.3 | 3.1 |
| 08 | 280 | 7.9 | 220 | 5.0 | 3.4 | 3.4 | | 230 | 6.7 | 4.4 |
| 09 | 350 | 8.7 | 220 | 5.3 | 3.2 | 3.2 | | 220 | 9.4 | 5.5 |
| 10 | 360 | 9.5 | 220 | 5.6 | 4.4 | 4.4 | | 220 | 9.2 | 8.3 |
| 11 | 370 | 10.8 | 215 | 5.5 | 3.8 | 4.6 | | 290 | 9.2 | 8.5 |
| 12 | 350 | 11.4 | 220 | 5.6 | 4.0 | 4.8 | | 325 | 8.9 | 9.4 |
| 13 | 350 | 11.8 | 220 | 5.5 | 4.1 | 4.7 | | 345 | 9.0 | (2.4) |
| 14 | 355 | 11.7 | | | 4.0 | 5.1 | | 340 | 8.9 | 9.6 |
| 15 | 335 | 11.8 | 220 | 5.4 | 4.0 | 5.1 | | 320 | 8.8 | 9.0 |
| 16 | 320 | 11.8 | | | 5.3 | 5.1 | | 210 | 8.8 | 8.3 |
| 17 | 310 | 11.3 | | | 5.1 | 3.8 | | 230 | 8.8 | 8.3 |
| 18 | 260 | 10.4 | | | 5.0 | 3.4 | | 275 | 8.8 | 8.0 |
| 19 | 270 | 10.0 | | | 5.0 | 4.6 | | 300 | 8.4 | 8.4 |
| 20 | 290 | 10.0 | | | 5.1 | 2.7 | | 310 | 8.1 | 8.4 |
| 21 | 280 | 10.5 | | | 5.3 | 2.8 | | 300 | 8.0 | 8.4 |
| 22 | 280 | 10.1 | | | 4.7 | 3.0 | | 210 | 8.3 | 8.0 |
| 23 | 270 | 10.0 | | | 4.7 | 2.8 | | 235 | 7.8 | 7.9 |

Time: 150.0%.
Sweep: 2.2 Mc to 16.0 Mc in one minute.

Table 36 (Supersedes Table 11, CRPL-F24)

Huancayo, Peru (12.0°S, 75.3°W)

July 1946

| Time | h'F2 | f'F2 | h'F1 | f'F1 | h'E | f'F1 | fOE | f'F2 | fOE | F2-M3000 |
|------|------|------|------|------|-----|------|-----|------|-----|----------|
| 00 | 220 | 7.0 | | | 2.9 | | | 220 | 7.0 | 3.1 |
| 01 | 220 | 7.0 | | | 2.9 | | | 230 | 6.6 | 3.1 |
| 02 | 230 | 6.6 | | | 2.9 | | | 230 | 5.6 | 3.2 |
| 03 | 230 | 6.6 | | | 3.0 | | | 240 | 4.8 | 3.1 |
| 04 | 240 | 6.6 | | | 3.1 | | | 240 | 4.1 | 3.1 |
| 05 | 240 | 6.6 | | | 3.1 | | | 280 | 4.3 | 3.1 |
| 06 | 280 | 6.6 | | | 3.2 | | | 260 | 4.3 | 3.1 |
| 07 | 260 | 7.2 | | | 3.1 | | | 260 | 7.2 | 2.9 |
| 08 | 280 | 7.9 | 220 | 5.0 | 3.4 | 3.4 | | 230 | 6.7 | 4.4 |
| 09 | 350 | 8.7 | 220 | 5.3 | 3.2 | 3.2 | | 220 | 9.4 | 5.5 |
| 10 | 360 | 9.5 | 220 | 5.6 | 4.4 | 4.4 | | 220 | 9.2 | 8.3 |
| 11 | 370 | 10.8 | 215 | 5.5 | 3.8 | 4.6 | | 290 | 9.2 | 8.5 |
| 12 | 350 | 11.4 | 220 | 5.6 | 4.0 | 4.8 | | 325 | 8.9 | 9.4 |
| 13 | 350 | 11.8 | 220 | 5.5 | 4.0 | 5.1 | | 345 | 9.0 | 9.6 |
| 14 | 355 | 11.7 | | | 5.4 | 5.1 | | 340 | 8.9 | 9.0 |
| 15 | 335 | 11.8 | 220 | 5.3 | 4.0 | 5.1 | | 320 | 8.8 | 9.2 |
| 16 | 320 | 11.8 | | | 5.3 | 5.1 | | 210 | 8.8 | 8.3 |
| 17 | 310 | 11.3 | | | 5.1 | 3.4 | | 230 | 8.8 | 8.3 |
| 18 | 260 | 10.4 | | | 5.0 | 4.6 | | 275 | 8.8 | 8.0 |
| 19 | 270 | 10.0 | | | 5.0 | 2.8 | | 300 | 8.4 | 8.4 |
| 20 | 290 | 10.0 | | | 4.4 | 2.8 | | 310 | 8.1 | 8.4 |
| 21 | 280 | 10.5 | | | 5.3 | 2.7 | | 300 | 8.0 | 8.4 |
| 22 | 280 | 10.1 | | | 4.7 | 2.8 | | 210 | 8.3 | 8.0 |
| 23 | 270 | 10.0 | | | 4.7 | 2.1 | | 235 | 7.8 | 7.9 |

Time: 60.0%.
Sweep: Record centered on the hour.

Table 34

San Juan, Puerto Rico (18.4°N, 66.1°W)

July 1946

| Time | h'F2 | f'F2 | h'F1 | f'F1 | h'E | f'F1 | fOE | f'F2 | fOE | F2-M3000 |
|------|------|------|------|------|-----|------|-----|------|-----|----------|
| 00 | 220 | 7.6 | | | 2.8 | | | 220 | 7.6 | 2.7 |
| 01 | 220 | 7.4 | | | 2.8 | | | 220 | 7.4 | 2.8 |
| 02 | 220 | 7.2 | | | 2.8 | | | 220 | 7.2 | 2.7 |
| 03 | 220 | 7.0 | | | 2.8 | | | 220 | 7.0 | 2.8 |
| 04 | 220 | 6.8 | | | 2.8 | | | 220 | 6.8 | 2.8 |
| 05 | 220 | 6.6 | | | 2.8 | | | 220 | 6.6 | 2.8 |
| 06 | 220 | 6.4 | | | 2.8 | | | 220 | 6.4 | 2.8 |
| 07 | 220 | 6.2 | | | 2.8 | | | 220 | 6.2 | 2.8 |
| 08 | 220 | 6.0 | | | 2.8 | | | 220 | 6.0 | 2.8 |
| 09 | 220 | 5.8 | | | 2.8 | | | 220 | 5.8 | 2.8 |
| 10 | 220 | 5.6 | | | 2.8 | | | 220 | 5.6 | 2.8 |
| 11 | 220 | 5.4 | | | 2.8 | | | 220 | 5.4 | 2.8 |
| 12 | 220 | 5.2 | | | 2.8 | | | 220 | 5.2 | 2.8 |
| 13 | 220 | 5.0 | | | 2.8 | | | 220 | 5.0 | 2.8 |
| 14 | 220 | 4.8 | | | 2.8 | | | 220 | 4.8 | 2.8 |
| 15 | 220 | 4.6 | | | 2.8 | | | 220 | 4.6 | 2.8 |
| 16 | 220 | 4.4 | | | 2.8 | | | 220 | 4.4 | 2.8 |
| 17 | 220 | 4.2 | | | 2.8 | | | 220 | 4.2 | 2.8 |
| 18 | 220 | 4.0 | | | 2.8 | | | 220 | 4.0 | 2.8 |
| 19 | 220 | 3.8 | | | 2.8 | | | 220 | 3.8 | 2.8 |
| 20 | 220 | 3.6 | | | 2.8 | | | 220 | 3.6 | 2.8 |
| 21 | 220 | 3.4 | | | 2.8 | | | 220 | 3.4 | 2.8 |
| 22 | 220 | 3.2 | | | 2.8 | | | 220 | 3.2 | 2.8 |
| 23 | 220 | 3.0 | | | 2.8 | | | 220 | 3.0 | 2.8 |

Time: 60.0%.
Sweep: Record centered on the hour.Time: 75.0%.
Sweep: 16.0 Mc to 0.5 Mc in fifteen minutes.

Table 37

Peiping, China (39.9°N, 116.4°E)

June 1946

Chungking, China (29.4°N, 106.8°E)

June 1946

| Time | h'P2 | f'P2 | b'P1 | c'P1 | b'1 | f'1 | f'2 | Sh. | F2-M3000 |
|------|------|------|------|------|-----|-----|-----|-----|----------|
| 00 | 8.9 | | | | | | | | |
| 01 | 8.4 | | | | | | | | |
| 02 | 8.7 | | | | | | | | |
| 03 | 8.9 | | | | | | | | |
| 04 | 8.8 | | | | | | | | |
| 05 | 9.0 | | | | | | | | |
| 06 | 8.6 | | | | | | | | |
| 07 | 9.5 | | | | | | | | |
| 08 | 9.6 | | | | | | | | |
| 09 | 10.2 | | | | | | | | |
| 10 | 10.2 | | | | | | | | |
| 11 | 10.3 | | | | | | | | |
| 12 | 10.5 | | | | | | | | |
| 13 | 10.7 | | | | | | | | |
| 14 | 10.6 | | | | | | | | |
| 15 | 10.0 | | | | | | | | |
| 16 | 10.6 | | | | | | | | |
| 17 | 10.5 | | | | | | | | |
| 18 | 10.5 | | | | | | | | |
| 19 | 9.8 | | | | | | | | |
| 20 | 10.0 | | | | | | | | |
| 21 | 8.8 | | | | | | | | |
| 22 | 8.3 | | | | | | | | |
| 23 | 8.5 | | | | | | | | |

Time: 120.0°E.
Sweep:

| Time | h'P2 | f'P2 | b'P1 | c'P1 | b'1 | f'1 | f'2 | Sh. | F2-M3000 |
|------|------|------|------|------|-----|-----|-----|-----|----------|
| 00 | 8.6 | | | | | | | | |
| 01 | 7.0 | | | | | | | | |
| 02 | 6.9 | | | | | | | | |
| 03 | 6.6 | | | | | | | | |
| 04 | 6.4 | | | | | | | | |
| 05 | 5.5 | | | | | | | | |
| 06 | 6.0 | | | | | | | | |
| 07 | 7.3 | | | | | | | | |
| 08 | 8.2 | | | | | | | | |
| 09 | 8.7 | | | | | | | | |
| 10 | 9.0 | | | | | | | | |
| 11 | 9.5 | | | | | | | | |
| 12 | 10.1 | | | | | | | | |
| 13 | 10.4 | | | | | | | | |
| 14 | 11.3 | | | | | | | | |
| 15 | 11.5 | | | | | | | | |
| 16 | 11.8 | | | | | | | | |
| 17 | 11.8 | | | | | | | | |
| 18 | 11.7 | | | | | | | | |
| 19 | 11.4 | | | | | | | | |
| 20 | 10.3 | | | | | | | | |
| 21 | 9.2 | | | | | | | | |
| 22 | 9.1 | | | | | | | | |
| 23 | 8.4 | | | | | | | | |

Time: 120.0°E.
Sweep:

| Time | h'P2 | f'P2 | b'P1 | c'P1 | b'1 | f'1 | f'2 | Sh. | F2-M3000 |
|------|------|------|------|------|-----|-----|-----|-----|----------|
| 00 | 2.6 | | | | | | | | |
| 01 | 2.4 | | | | | | | | |
| 02 | 2.2 | | | | | | | | |
| 03 | 2.0 | | | | | | | | |
| 04 | 1.9 | | | | | | | | |
| 05 | 1.8 | | | | | | | | |
| 06 | 1.7 | | | | | | | | |
| 07 | 1.6 | | | | | | | | |
| 08 | 1.5 | | | | | | | | |
| 09 | 1.4 | | | | | | | | |
| 10 | 1.3 | | | | | | | | |
| 11 | 1.2 | | | | | | | | |
| 12 | 1.1 | | | | | | | | |
| 13 | 1.0 | | | | | | | | |
| 14 | 0.9 | | | | | | | | |
| 15 | 0.8 | | | | | | | | |
| 16 | 0.7 | | | | | | | | |
| 17 | 0.6 | | | | | | | | |
| 18 | 0.5 | | | | | | | | |
| 19 | 0.4 | | | | | | | | |
| 20 | 0.3 | | | | | | | | |
| 21 | 0.2 | | | | | | | | |
| 22 | 0.1 | | | | | | | | |
| 23 | 0.0 | | | | | | | | |

Time: 120.0°E.
Sweep:

| Time | h'P2 | f'P2 | b'P1 | c'P1 | b'1 | f'1 | f'2 | Sh. | F2-M3000 |
|------|------|------|------|------|-----|-----|-----|-----|----------|
| 00 | 8.4 | | | | | | | | |
| 01 | 7.6 | | | | | | | | |
| 02 | 7.4 | | | | | | | | |
| 03 | 6.8 | | | | | | | | |
| 04 | 6.3 | | | | | | | | |
| 05 | 5.5 | | | | | | | | |
| 06 | 4.9 | | | | | | | | |
| 07 | 4.9 | | | | | | | | |
| 08 | 4.8 | | | | | | | | |
| 09 | 4.8 | | | | | | | | |
| 10 | 4.7 | | | | | | | | |
| 11 | 4.6 | | | | | | | | |
| 12 | 4.5 | | | | | | | | |
| 13 | 4.4 | | | | | | | | |
| 14 | 4.3 | | | | | | | | |
| 15 | 4.2 | | | | | | | | |
| 16 | 4.1 | | | | | | | | |
| 17 | 4.0 | | | | | | | | |
| 18 | 3.9 | | | | | | | | |
| 19 | 3.8 | | | | | | | | |
| 20 | 3.7 | | | | | | | | |
| 21 | 3.6 | | | | | | | | |
| 22 | 3.5 | | | | | | | | |
| 23 | 3.4 | | | | | | | | |

Time: 120.0°E.
Sweep:

| Time | h'P2 | f'P2 | b'P1 | c'P1 | b'1 | f'1 | f'2 | Sh. | F2-M3000 |
|------|------|------|------|------|-----|-----|-----|-----|----------|
| 00 | 2.8 | | | | | | | | |
| 01 | 2.5 | | | | | | | | |
| 02 | 2.4 | | | | | | | | |
| 03 | 2.3 | | | | | | | | |
| 04 | 2.2 | | | | | | | | |
| 05 | 2.1 | | | | | | | | |
| 06 | 2.0 | | | | | | | | |
| 07 | 1.9 | | | | | | | | |
| 08 | 1.8 | | | | | | | | |
| 09 | 1.7 | | | | | | | | |
| 10 | 1.6 | | | | | | | | |
| 11 | 1.5 | | | | | | | | |
| 12 | 1.4 | | | | | | | | |
| 13 | 1.3 | | | | | | | | |
| 14 | 1.2 | | | | | | | | |
| 15 | 1.1 | | | | | | | | |
| 16 | 1.0 | | | | | | | | |
| 17 | 0.9 | | | | | | | | |
| 18 | 0.8 | | | | | | | | |
| 19 | 0.7 | | | | | | | | |
| 20 | 0.6 | | | | | | | | |
| 21 | 0.5 | | | | | | | | |
| 22 | 0.4 | | | | | | | | |
| 23 | 0.3 | | | | | | | | |

Time: 120.0°E.
Sweep:

| Time | h'P2 | f'P2 | b'P1 | c'P1 | b'1 | f'1 | f'2 | Sh. | F2-M3000 |
|------|------|------|------|------|-----|-----|-----|-----|----------|
| 00 | 8.2 | | | | | | | | |
| 01 | 7.8 | | | | | | | | |
| 02 | 7.4 | | | | | | | | |
| 03 | 7.0 | | | | | | | | |
| 04 | 6.6 | | | | | | | | |
| 05 | 6.2 | | | | | | | | |
| 06 | 5.8 | | | | | | | | |
| 07 | 5.4 | | | | | | | | |
| 08 | 5.0 | | | | | | | | |
| 09 | 4.6 | | | | | | | | |
| 10 | 4.2 | | | | | | | | |
| 11 | 3.8 | | | | | | | | |
| 12 | 3.4 | | | | | | | | |
| 13 | 3.0 | | | | | | | | |
| 14 | 2.6 | | | | | | | | |
| 15 | 2.2 | | | | | | | | |
| 16 | 1.8 | | | | | | | | |
| 17 | 1.4 | | | | | | | | |
| 18 | 1.0 | | | | | | | | |
| 19 | 0.6 | | | | | | | | |
| 20 | 0.2 | | | | | | | | |
| 21 | -0.2 | | | | | | | | |
| 22 | -0.6 | | | | | | | | |
| 23 | -0.8 | | | | | | | | |

Time: 120.0°E.
Sweep:

| Time | h'P2 | f'P2 | b'P1 | c'P1 | b'1 | f'1 | f'2 | Sh. | F2-M3000 |
|------|------|------|------|------|-----|-----|-----|-----|----------|
| 00 | 8.0 | | | | | | | | |
| 01 | 7.6 | | | | | | | | |
| 02 | 7.2 | | | | | | | | |
| 03 | 6.8 | | | | | | | | |
| 04 | 6.3 | | | | | | | | |
| 05 | 5.8 | | | | | | | | |
| 06 | 5.4 | | | | | | | | |
| 07 | 5.0 | | | | | | | | |
| 08 | 4.6 | | | | | | | | |
| 09 | 4.2 | | | | | | | | |
| 10 | 3.8 | | | | | | | | |
| 11 | 3.4 | | | | | | | | |
| 12 | 3.0 | | | | | | | | |
| 13 | 2.6 | | | | | | | | |
| 14 | 2.2 | | | | | | | | |
| 15 | 1.8 | | | | | | | | |
| 16 | 1.4 | | | | | | | | |
| 17 | 1.0 | | | | | | | | |
| 18 | 0.6 | | | | | | | | |
| 19 | 0.2 | | | | | | | | |
| 20 | -0.2 | | | | | | | | |
| 21 | -0.6 | | | | | | | | |
| 22 | -0.8 | | | | | | | | |
| 23 | -0.8 | | | | | | | | |

Time: 120.0°E.
Sweep:

|--|

Table A1 (Supersedes Table 20, CRPL-P24.)

Brisbane, Australia (27°5 S., 152°0 E.)

June 1946

| Time | h F2 | f ₀ F2 | h' F1 | f ₀ F1 | h" E | f ₀ E | f ₀ E | F2-H3000 |
|------|------|-------------------|-------|-------------------|------|------------------|------------------|----------|
| 00 | 280 | 4.0 | | | 3.0 | | | |
| 01 | 270 | 4.2 | | | 3.0 | | | |
| 02 | 280 | 4.1 | | | 3.0 | | | |
| 03 | 280 | 4.2 | | | 3.0 | | | |
| 04 | 276 | 4.1 | | | 3.0 | | | |
| 05 | 250 | 4.0 | | | 3.0 | | | |
| 06 | 265 | 3.8 | | | 3.2 | | | |
| 07 | 220 | 6.5 | | | 3.5 | | | |
| 08 | 215 | 7.9 | | | 2.5 | | | |
| 09 | 230 | 9.0 | 210 | 110 | 2.9 | 3.4 | | |
| 10 | 240 | 9.3 | 210 | 105 | 3.3 | 3.4 | | |
| 11 | 250 | 8.7 | 200 | 4.7 | 100 | 3.3 | 3.8 | |
| 12 | 250 | 8.9 | 200 | 4.8 | 100 | 3.3 | 3.8 | |
| 13 | 240 | 8.5 | 200 | 4.6 | 100 | 3.3 | 3.8 | |
| 14 | 260 | 8.8 | 200 | 4.6 | 4.6 | 3.2 | 3.8 | |
| 15 | 220 | 8.8 | | 110 | 3.0 | 4.4 | 3.3 | |
| 16 | 220 | 8.3 | | | 2.4 | 3.9 | 3.4 | |
| 17 | 210 | 7.5 | | | | 3.4 | 3.4 | |
| 18 | 220 | 6.3 | | | | 3.4 | 3.4 | |
| 19 | 230 | 5.0 | | | | 3.3 | 3.4 | |
| 20 | 255 | 4.5 | | | | 3.2 | 3.4 | |
| 21 | 275 | 4.5 | | | | 3.0 | 3.2 | |
| 22 | 275 | 4.2 | | | | 3.0 | 3.2 | |
| 23 | 270 | 4.0 | | | | 3.0 | 3.0 | |

Time: 150.0°E.
Sweep: 2.2 Mc to 12.5 Mc in two minutes, thirty seconds.

Table A3

| Time | h F2 | f ₀ F2 | h' F1 | f ₀ F1 | h" E | f ₀ E | f ₀ E | F2-H3000 |
|------|------|-------------------|-------|-------------------|------|------------------|------------------|----------|
| 00 | 300 | 4.0 | | | 2.8 | | | |
| 01 | 300 | 4.0 | | | 2.8 | | | |
| 02 | 300 | 3.9 | | | 2.7 | | | |
| 03 | 305 | 4.0 | | | 2.1 | | | |
| 04 | 300 | 4.1 | | | 2.1 | | | |
| 05 | 270 | 4.1 | | | 2.8 | | | |
| 06 | 260 | 3.6 | | | 1.8 | | | |
| 07 | 250 | 4.5 | | | 2.5 | | | |
| 08 | 250 | 6.6 | | | 2.4 | | | |
| 09 | 250 | 8.0 | | | 2.3 | | | |
| 10 | 260 | 8.5 | 240 | 4.2 | 110 | 2.7 | 3.1 | |
| 11 | 250 | 8.5 | 240 | 4.3 | 110 | 3.2 | 3.5 | |
| 12 | 260 | 8.6 | 245 | 4.3 | 110 | 3.2 | 4.0 | |
| 13 | 270 | 8.5 | 245 | 4.4 | 110 | 3.2 | 4.0 | |
| 14 | 280 | 8.6 | 240 | 4.0 | 110 | 3.0 | 4.0 | |
| 15 | 250 | 8.5 | 250 | 4.0 | 110 | 2.8 | 3.6 | |
| 16 | 250 | 8.0 | | | 120 | 2.8 | 3.6 | |
| 17 | 250 | 7.4 | | | 2.4 | 3.0 | 3.6 | |
| 18 | 250 | 6.0 | | | | 3.0 | 3.6 | |
| 19 | 250 | 5.0 | | | | 3.0 | 3.6 | |
| 20 | 260 | 4.4 | | | | 2.9 | 3.6 | |
| 21 | 290 | 4.0 | | | | 2.9 | 3.6 | |
| 22 | 300 | 3.9 | | | | 2.8 | 3.6 | |
| 23 | 300 | 3.8 | | | | (2.8) | 3.6 | |

Time: 150.0°E.
Sweep: 1.6 Mc to 12.5 Mc in two minutes.

| Time | h F2 | f ₀ F2 | h' F1 | f ₀ F1 | h" E | f ₀ E | f ₀ E | F2-H3000 |
|------|------|-------------------|-------|-------------------|------|------------------|------------------|----------|
| 00 | 250 | 4.0 | | | 2.8 | | | |
| 01 | 260 | 4.2 | | | 2.7 | | | |
| 02 | 240 | 4.3 | | | 3.8 | | | |
| 03 | 250 | 4.1 | | | 3.4 | | | |
| 04 | 300 | 3.0 | | | 3.0 | | | |
| 05 | 300 | 3.0 | | | 3.0 | | | |
| 06 | 280 | 3.0 | | | 3.5 | | | |
| 07 | 235 | 6.5 | | | 6.5 | | | |
| 08 | 245 | 9.0 | | | 9.0 | | | |
| 09 | 250 | 10.0 | | | 10.0 | | | |
| 10 | 250 | 9.9 | 240 | 5.0 | 10.0 | | | |
| 11 | 250 | 9.8 | 210 | 2.0 | 9.8 | | | |
| 12 | 270 | 9.0 | 210 | 2.0 | 9.0 | | | |
| 13 | 275 | 9.0 | 210 | 2.0 | 9.0 | | | |
| 14 | 280 | 9.0 | 200 | 2.0 | 9.0 | | | |
| 15 | 250 | 8.8 | 250 | 4.6 | 8.8 | | | |
| 16 | 250 | 8.6 | 250 | 4.6 | 8.6 | | | |
| 17 | 242 | 8.3 | 225 | 7.5 | 8.3 | | | |
| 18 | 240 | 7.5 | 225 | 7.5 | 7.5 | | | |
| 19 | 240 | 5.0 | 225 | 4.5 | 5.0 | | | |
| 20 | 225 | 4.5 | 225 | 4.5 | 4.5 | | | |
| 21 | 255 | 4.6 | 225 | 4.6 | 4.6 | | | |
| 22 | 250 | 4.3 | 225 | 4.3 | 4.3 | | | |
| 23 | 250 | 4.2 | 225 | 4.2 | 4.2 | | | |

Time: 150.0°E.
Sweep: 1.0 Mc to 13.0 Mc in one minute, fifty-five seconds.

Table A4

| Time | h F2 | f ₀ F2 | h' F1 | f ₀ F1 | h" E | f ₀ E | f ₀ E | F2-H3000 |
|------|------|-------------------|-------|-------------------|------|------------------|------------------|----------|
| 00 | 250 | 4.0 | | | 2.7 | | | |
| 01 | 275 | 2.6 | | | 2.6 | | | |
| 02 | 278 | 2.6 | | | 2.6 | | | |
| 03 | 265 | 2.6 | | | 2.6 | | | |
| 04 | 280 | 2.7 | | | 2.7 | | | |
| 05 | 250 | 2.8 | | | 2.8 | | | |
| 06 | 240 | 2.5 | | | 2.5 | | | |
| 07 | 250 | 2.7 | | | 2.7 | | | |
| 08 | 225 | 5.2 | | | 5.2 | | | |
| 09 | 230 | 7.0 | | | 7.0 | | | |
| 10 | 230 | 7.5 | 210 | 4.0 | 7.5 | | | |
| 11 | 250 | 8.2 | 215 | 4.0 | 8.2 | | | |
| 12 | 250 | 8.5 | 215 | 4.1 | 8.5 | | | |
| 13 | 248 | 8.9 | 215 | 4.1 | 8.9 | | | |
| 14 | 245 | 8.6 | 220 | 4.0 | 8.6 | | | |
| 15 | 230 | 8.5 | 225 | 4.0 | 8.5 | | | |
| 16 | 230 | 8.5 | 225 | 4.0 | 8.5 | | | |
| 17 | 210 | 7.2 | 225 | 4.1 | 7.2 | | | |
| 18 | 225 | 6.1 | 225 | 4.1 | 6.1 | | | |
| 19 | 225 | 4.9 | 225 | 4.9 | 4.9 | | | |
| 20 | 228 | 3.8 | 228 | 3.8 | 3.8 | | | |
| 21 | 240 | 3.4 | 228 | 3.4 | 3.4 | | | |
| 22 | 242 | 3.0 | 228 | 3.0 | 3.0 | | | |
| 23 | 222 | 2.8 | 228 | 2.8 | 2.8 | | | |

Time: 150.0°E.
Sweep: 1.0 Mc to 13.0 Mc in one minute, fifty-five seconds.

| Time | h F2 | f ₀ F2 | h' F1 | f ₀ F1 | h" E | f ₀ E | f ₀ E | F2-H3000 |
|------|------|-------------------|-------|-------------------|------|------------------|------------------|----------|
| 00 | 150 | 2.3 | | | 2.3 | | | |
| 01 | 150 | 3.6 | | | 3.6 | | | |
| 02 | 150 | 3.2 | | | 3.2 | | | |
| 03 | 150 | 3.1 | | | 3.1 | | | |
| 04 | 150 | 3.0 | | | 3.0 | | | |
| 05 | 150 | 3.2 | | | 3.2 | | | |
| 06 | 150 | 3.3 | | | 3.3 | | | |
| 07 | 150 | 3.4 | | | 3.4 | | | |
| 08 | 150 | 3.5 | | | 3.5 | | | |
| 09 | 150 | 3.6 | | | 3.6 | | | |
| 10 | 150 | 3.6 | | | 3.6 | | | |
| 11 | 150 | 3.6 | | | 3.6 | | | |
| 12 | 150 | 3.6 | | | 3.6 | | | |
| 13 | 150 | 3.6 | | | 3.6 | | | |
| 14 | 150 | 3.6 | | | 3.6 | | | |
| 15 | 150 | 3.6 | | | 3.6 | | | |
| 16 | 150 | 3.6 | | | 3.6 | | | |
| 17 | 150 | 3.6 | | | 3.6 | | | |
| 18 | 150 | 3.6 | | | 3.6 | | | |
| 19 | 150 | 3.6 | | | 3.6 | | | |
| 20 | 150 | 3.6 | | | 3.6 | | | |
| 21 | 150 | 3.6 | | | 3.6 | | | |
| 22 | 150 | 3.6 | | | 3.6 | | | |
| 23 | 150 | 3.6 | | | 3.6 | | | |

Time: 150.0°E.
Sweep: 1.0 Mc to 13.0 Mc in one minute, fifty-five seconds.

| Time | h F2 | f ₀ F2 | h' F1 | f ₀ F1 | h" E | f ₀ E | f ₀ E | F2-H3000 |
|------|------|-------------------|-------|-------------------|------|------------------|------------------|----------|
| 00 | 150 | 3.6 | | | 3.6 | | | |
| 01 | 150 | 3.6 | | | 3.6 | | | |
| 02 | 150 | 3.6 | | | 3.6 | | | |
| 03 | 150 | 3.6 | | | 3.6 | | | |
| 04 | 150 | 3.6 | | | 3.6 | | | |
| 05 | 150 | 3.6 | | | 3.6 | | | |
| 06 | 150 | 3.6 | | | 3.6 | | | |
| 07 | 150 | 3.6 | | | 3.6 | | | |
| 08 | 150 | 3.6 | | | 3.6 | | | |
| 09 | 150 | 3.6 | | | 3.6 | | | |
| 10 | 150 | 3.6 | | | 3.6 | | | |
| 11 | 150 | 3.6 | | | 3.6 | | | |
| 12 | 150 | 3.6 | | | 3.6 | | | |
| 13 | 150 | 3.6 | | | 3.6 | | | |
| 14 | 150 | 3.6 | | | 3.6 | | | |
| 15 | 150 | 3.6 | | | 3.6 | | | |
| 16 | 150 | 3.6 | | | 3.6 | | | |
| 17 | 150 | 3.6 | | | 3.6 | | | |
| 18 | 150 | 3.6 | | | 3.6 | | | |
| 19 | 150 | 3.6 | | | 3.6 | | | |
| 20 | 150 | 3.6 | | | 3.6 | | | |
| 21 | 150 | 3.6 | | | 3.6 | | | |
| 22 | 150 | 3.6 | | | 3.6 | | | |
| 23 | 150 | 3.6 | | | 3.6 | | | |

Time: 150.0°E.
Sweep: 1.0 Mc to 13.0 Mc in one minute, fifty-five seconds.

| Time | h F2 | f ₀ F2 | h' F1 | f ₀ F1 | h" E | f ₀ E | f ₀ E | F2-H3000 |
|------|------|-------------------|-------|-------------------|------|------------------|------------------|----------|
| 00 | 150 | 3.6 | | | 3.6 | | | |
| 01 | 150 | 3.6 | | | 3.6 | | | |
| 02 | 150 | 3.6 | | | 3.6 | | | |
| 03 | 150 | 3.6 | | | 3.6 | | | |
| 04 | 150 | 3.6 | </td | | | | | |

Table 45

Tromsø, Norway (69.7°N, 18.9°E)

May 1976

| Name | H _{IP2} | F _{IP2} | H _{IE} | F _{IE} | H _{ES} | F _{ES} | H _{EE} | F _{EE} |
|------|------------------|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 00 | 362 | (5.3) | | | | | | |
| 01 | 320 | (5.7) | | | | | | |
| 02 | 322 | (5.5) | | | | | | |
| 03 | 320 | 5.5 | | | | | | |
| 04 | 327 | (5.5) | | | | | | |
| 05 | 330 | 5.7 | | | | | | |
| 06 | 355 | 5.9 | | | | | | |
| 07 | 350 | 5.8 | | | | | | |
| 08 | 324 | 6.0 | | | | | | |
| 09 | 360 | 6.0 | | | | | | |
| 10 | 360 | 6.0 | | | | | | |
| 11 | 340 | 6.1 | | | | | | |
| 12 | 355 | 6.1 | | | | | | |
| 13 | 380 | 6.0 | | | | | | |
| 14 | 350 | 5.9 | | | | | | |
| 15 | 327 | 5.9 | | | | | | |
| 16 | 324 | 6.0 | | | | | | |
| 17 | 300 | 5.9 | | | | | | |
| 18 | 310 | 5.7 | | | | | | |
| 19 | 319 | 5.5 | | | | | | |
| 20 | 340 | 5.3 | | | | | | |
| 21 | 340 | 5.6 | | | | | | |
| 22 | 350 | 5.2 | | | | | | |
| 23 | 350 | 5.3 | | | | | | |

time: 0.00E.

Table 17

| Line | $h^{\circ}R2$ | $10^{\circ}P2$ | $h^{\circ}P1$ | $10^{\circ}P1$ | $h^{\circ}E$ | $10^{\circ}E$ | $F2B$ | $F2M$ | $F2-N3300$ |
|------|---------------|----------------|---------------|----------------|--------------|---------------|-------|-------|------------|
| 00 | 8.8 | | | | | | 3.5 | (2.7) | |
| 01 | 8.8 | | | | | | 3.4 | 2.8 | |
| 02 | 8.0 | | | | | | 3.4 | | |
| 03 | 8.0 | | | | | | 3.0 | | |
| 04 | 7.4 | | | | | | 3.0 | (2.9) | |
| 05 | 7.1 | | | | | | 2.9 | | |
| 06 | 8.0 | | | | | | 3.4 | | |
| 07 | 8.8 | | | | | | 4.5 | | |
| 08 | 8.6 | | | | | | 5.4 | | |
| 09 | | | 9.3 | | | | 6.6 | | |
| 10 | | | 9.6 | | | | 5.6 | | |
| 11 | 11.1 | | 10.5 | | | | 5.4 | | |
| 12 | 11.3 | | 11.6 | | | | 6.2 | | |
| 13 | 11.6 | | 11.9 | | | | 5.0 | | |
| 14 | 11.4 | | 11.9 | | | | 4.5 | | |
| 15 | | | 11.2 | | | | | 2.9 | |
| 16 | | | 10.6 | | | | | 4.8 | |
| 17 | | | 10.4 | | | | | 4.8 | |
| 18 | | | 10.4 | | | | | 4.8 | |
| 19 | | | 9.8 | | | | | 5.0 | |
| 20 | | | 9.0 | | | | | 5.6 | |
| 21 | | | 8.6 | | | | | 5.0 | |
| 22 | | | 9.0 | | | | | 4.8 | |
| 23 | | | 9.6 | | | | | | |

Time : 30.00E.

Table 16

Partners China (2000 116 (8))

Particulars of the 1990 Census

Time: 120.00E.

Time: 135.00E.

27

27

Time: 120.00E.

2

Cram I. (13.5°N, 144.2°E)

| Time | h'F2 | f'F2 | h'F1 | f'F1 | h'E | f'OE | f'OE | F2-M3000 |
|------|------|------|------|------|-----|------|------|----------|
| 00 | 9.7 | | | | 2.8 | | | |
| 01 | 8.6 | | | | 2.9 | | | |
| 02 | 8.6 | | | | 2.9 | | | |
| 03 | 8.7 | | | | 3.1 | | | |
| 04 | 7.3 | | | | 3.2 | | | |
| 05 | 5.8 | | | | 3.2 | | | |
| 06 | 5.5 | | | | 3.2 | | | |
| 07 | 7.7 | | | | 3.2 | | | |
| 08 | 9.9 | | | | 3.2 | | | |
| 09 | 9.6 | | | | 2.9 | | | |
| 10 | 10.2 | | | | 2.9 | | | |
| 11 | 10.9 | | | | 2.5 | | | |
| 12 | 11.5 | | | | 2.4 | | | |
| 13 | 12.2 | | | | 2.4 | | | |
| 14 | 12.5 | | | | 2.4 | | | |
| 15 | 12.8 | | | | 2.5 | | | |
| 16 | 13.5 | | | | 2.5 | | | |
| 17 | 13.7 | | | | 2.5 | | | |
| 18 | 13.0 | | | | 2.6 | | | |
| 19 | 12.2 | | | | 2.6 | | | |
| 20 | 11.2 | | | | 2.5 | | | |
| 21 | 10.5 | | | | 2.5 | | | |
| 22 | 10.0 | | | | 2.4 | | | |
| 23 | 9.7 | | | | 2.6 | | | |

Time: 150.0°E.
Sweep: Manual operation.

Table 51 (Supersedes Table 1a, CRPL-F22)
Burkhead, Scotland (57.7°N, 3.5°W)

| Time | h'F2 | f'F2 | h'F1 | f'F1 | h'E | f'OE | f'OE | F2-M3000 |
|------|------|------|------|------|-----|------|------|----------|
| 00 | 5.6 | | | | 5.6 | | | |
| 01 | 5.4 | | | | 5.4 | | | |
| 02 | 5.3 | | | | 5.3 | | | |
| 03 | 5.2 | | | | 5.2 | | | |
| 04 | 4.8 | | | | 4.8 | | | |
| 05 | 4.5 | | | | 4.5 | | | |
| 06 | 4.4 | | | | 4.4 | | | |
| 07 | 6.0 | | | | 6.0 | | | |
| 08 | 6.4 | | | | 6.4 | | | |
| 09 | 7.0 | | | | 7.0 | | | |
| 10 | 7.2 | | | | 7.2 | | | |
| 11 | 7.6 | | | | 7.6 | | | |
| 12 | 8.0 | | | | 8.0 | | | |
| 13 | 7.8 | | | | 7.8 | | | |
| 14 | 7.9 | | | | 7.9 | | | |
| 15 | 7.8 | | | | 7.8 | | | |
| 16 | 7.8 | | | | 7.8 | | | |
| 17 | 7.9 | | | | 7.9 | | | |
| 18 | 7.7 | | | | 7.7 | | | |
| 19 | 7.8 | | | | 7.8 | | | |
| 20 | 7.4 | | | | 7.4 | | | |
| 21 | 6.9 | | | | 6.9 | | | |
| 22 | 6.5 | | | | 6.5 | | | |
| 23 | 6.1 | | | | 6.1 | | | |

Time: 0.0°E.
Sweep: 1.0 Mc to 13.0 Mc. Normal operation.

Table 50

Oslo, Norway (59.9°N, 11.0°E)

| Time | h'F2 | f'F2 | h'F1 | f'F1 | h'E | f'OE | f'OE | F2-M3000 |
|------|------|-------|------|------|-----|------|------|----------|
| 00 | 305 | (5.2) | | | | | | |
| 01 | 320 | (4.6) | | | | | | |
| 02 | 318 | | | | | | | |
| 03 | 300 | (4.6) | | | | | | |
| 04 | 290 | (4.5) | | | | | | |
| 05 | 270 | 4.2 | | | | | | |
| 06 | 240 | 5.2 | | | | | | |
| 07 | 240 | 5.7 | | | | | | |
| 08 | 240 | 6.0 | | | | | | |
| 09 | 260 | 6.3 | | | | | | |
| 10 | 250 | 6.5 | | | | | | |
| 11 | 298 | 6.9 | | | | | | |
| 12 | 320 | 6.6 | | | | | | |
| 13 | 300 | 6.9 | | | | | | |
| 14 | 290 | 7.0 | | | | | | |
| 15 | 270 | 6.9 | | | | | | |
| 16 | 240 | 7.1 | | | | | | |
| 17 | 230 | 7.4 | | | | | | |
| 18 | 240 | 7.2 | | | | | | |
| 19 | 250 | 7.0 | | | | | | |
| 20 | 240 | 7.0 | | | | | | |
| 21 | 250 | 6.5 | | | | | | |
| 22 | 270 | 6.0 | | | | | | |
| 23 | 300 | 5.5 | | | | | | |

Time: 150.0°E.
Sweep: 16.0 Mc to 1.63 Mc in ten minutes.

Table S2 (Supersedes Table 22, CRPL-F23)

Moscow (Krasnaja Pukha), U.S.S.R. (55.5°N, 37.3°E)

| Time | h'F2 | f'F2 | h'F1 | f'F1 | h'E | f'OE | f'OE | F2-M3000 |
|------|------|------|------|------|-----|------|------|----------|
| 00 | 5.0 | | | | | | | |
| 01 | 4.5 | | | | | | | |
| 02 | 4.2 | | | | | | | |
| 03 | 3.8 | | | | | | | |
| 04 | 3.9 | | | | | | | |
| 05 | 4.8 | | | | | | | |
| 06 | 5.6 | | | | | | | |
| 07 | 6.3 | | | | | | | |
| 08 | 7.1 | | | | | | | |
| 09 | 8.2 | | | | | | | |
| 10 | 8.7 | | | | | | | |
| 11 | 9.0 | | | | | | | |
| 12 | 9.0 | | | | | | | |
| 13 | 8.6 | | | | | | | |
| 14 | 8.4 | | | | | | | |
| 15 | 8.5 | | | | | | | |
| 16 | 8.4 | | | | | | | |
| 17 | 8.2 | | | | | | | |
| 18 | 8.4 | | | | | | | |
| 19 | 8.1 | | | | | | | |
| 20 | 7.3 | | | | | | | |
| 21 | 6.2 | | | | | | | |
| 22 | 5.4 | | | | | | | |
| 23 | 5.3 | | | | | | | |

Time: 30.0°E.
Sweep: 1.8 Mc to 10.0 Mc in ten minutes. Manual operation.

Table 52

| Time | $h^{\circ}F2$ | $f^{\circ}F2$ | $h^{\circ}F1$ | $f^{\circ}F1$ | $h^{\circ}E$ | $f^{\circ}E$ | $f^{\circ}E$ | $F2-M3000$ |
|------|---------------|---------------|---------------|---------------|--------------|--------------|--------------|------------|
| 00 | 5.5 | 5.5 | | | 0.8 | | | |
| 01 | 5.4 | | 1.2 | | | | | |
| 02 | 4.9 | | 0.5 | | | | | |
| 03 | 4.5 | | 0.5 | | | | | |
| 04 | 4.2 | | 1.0 | | | | | |
| 05 | 4.1 | | | | | | | |
| 06 | 5.3 | | | | | | | |
| 07 | 5.8 | | | | | | | |
| 08 | 6.4 | | | | | | | |
| 09 | 7.2 | | | | | | | |
| 10 | 7.3 | | | | | | | |
| 11 | 8.1 | | | | | | | |
| 12 | 8.4 | | | | | | | |
| 13 | 8.6 | | | | | | | |
| 14 | 8.5 | | | | | | | |
| 15 | 8.6 | | | | | | | |
| 16 | 8.4 | | | | | | | |
| 17 | 8.3 | | | | | | | |
| 18 | 8.5 | | | | | | | |
| 19 | 8.2 | | | | | | | |
| 20 | 7.4 | | | | | | | |
| 21 | 6.9 | | | | | | | |
| 22 | 6.2 | | | | | | | |
| 23 | 5.9 | | | | | | | |

Time: 0.0°
 Sweep: 6.5 Mc to 16.0 Mc in four minutes.

Table 53

| Time | $h^{\circ}F2$ | $f^{\circ}F2$ | $h^{\circ}F1$ | $f^{\circ}F1$ | $h^{\circ}E$ | $f^{\circ}E$ | $f^{\circ}E$ | $F2-M3000$ |
|------|---------------|---------------|---------------|---------------|--------------|--------------|--------------|------------|
| 00 | 0.5 | | | | | | | |
| 01 | 0.4 | | | | | | | |
| 02 | 0.9 | | | | | | | |
| 03 | 4.5 | | | | | | | |
| 04 | 4.9 | | | | | | | |
| 05 | (274) | | | | | | | |
| 06 | (252) | | | | | | | |
| 07 | (267) | | | | | | | |
| 08 | (250) | | | | | | | |
| 09 | (243) | | | | | | | |
| 10 | (236) | | | | | | | |
| 11 | 24.8 | (7.6) | | | | | | |
| 12 | 25.0 | 7.8 | | | | | | |
| 13 | 24.6 | 7.4 | | | | | | |
| 14 | (227) | (7.5) | | | | | | |
| 15 | 24.6 | 7.0 | | | | | | |
| 16 | (245) | (7.1) | | | | | | |
| 17 | (244) | (7.0) | | | | | | |
| 18 | | | | | | | | |
| 19 | (295) | (6.3) | | | | | | |
| 20 | 6.0 | | | | | | | |
| 21 | | | | | | | | |
| 22 | (5.3) | | | | | | | |
| 23 | 316 | (5.4) | | | | | | |

Time: Local.
 Sweep: 2.0 Mc to 16.0 Mc in one minute.
 Data sheet labeled "Extent of E".

Table 55

| Time | $h^{\circ}F2$ | $f^{\circ}F2$ | $h^{\circ}F1$ | $f^{\circ}F1$ | $h^{\circ}E$ | $f^{\circ}E$ | $f^{\circ}E$ | $F2-M3000$ |
|------|---------------|---------------|---------------|---------------|--------------|--------------|--------------|------------|
| 00 | (298) | | | | | | | |
| 01 | | | | | 4.2 | | | |
| 02 | | | | | 4.5 | | | |
| 03 | | | | | | | | |
| 04 | | | | | | | | |
| 05 | | | | | | | | |
| 06 | | | | | | | | |
| 07 | | | | | | | | |
| 08 | | | | | | | | |
| 09 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |

Time: 0.0°
 Sweep: 0.8 Mc to 11.4 Mc in five minutes.
 No observations recorded from the thirteenth through the twenty-seventh day of the month.

Table 56 (Supersedes Table 23, CRFL-F23)

| Time | $h^{\circ}F2$ | $f^{\circ}F2$ | $h^{\circ}F1$ | $f^{\circ}F1$ | $h^{\circ}E$ | $f^{\circ}E$ | $f^{\circ}E$ | $F2-M3000$ |
|------|---------------|---------------|---------------|---------------|--------------|--------------|--------------|------------|
| 00 | 0.0 | | | | | | | |
| 01 | | | | | 5.0 | | | |
| 02 | | | | | | | | |
| 03 | | | | | | | | |
| 04 | | | | | | | | |
| 05 | | | | | | | | |
| 06 | | | | | | | | |
| 07 | | | | | | | | |
| 08 | | | | | | | | |
| 09 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |

Time: 0.0°
 Sweep: 1.0 Mc to 13.0 Mc. Manual operation.

Table 57 (Supersedes Table 24, CRFL-F22)

Moscow (Krasnaya Pekhra), U.S.S.R. (56.5°N, 37.2°E) March 1946

| Name | h ¹ F2 | f ¹ F2 | h ¹ F1 | f ¹ F1 | h ¹ E | f ¹ E | foE | f ¹ S | f ¹ S | F2-M3000 |
|------|-------------------|-------------------|-------------------|-------------------|------------------|------------------|-----|------------------|------------------|----------|
| 00 | 3.7 | | | | | | | | | |
| 01 | 3.5 | | | | | | | | | |
| 02 | 3.2 | | | | | | | | | |
| 03 | 3.2 | | | | | | | | | |
| 04 | 2.9 | | | | | | | | | |
| 05 | 2.8 | | | | | | | | | |
| 06 | 4.2 | | | | | | | | | |
| 07 | 5.8 | | | | | | | | | |
| 08 | 7.1 | | | | | | | | | |
| 09 | 8.2 | | | | | | | | | |
| 10 | 9.2 | | | | | | | | | |
| 11 | 9.6 | | | | | | | | | |
| 12 | 10.1 | | | | | | | | | |
| 13 | 10.0 | | | | | | | | | |
| 14 | 10.0 | | | | | | | | | |
| 15 | 9.5 | | | | | | | | | |
| 16 | 9.2 | | | | | | | | | |
| 17 | 8.5 | | | | | | | | | |
| 18 | 8.2 | | | | | | | | | |
| 19 | 7.0 | | | | | | | | | |
| 20 | 5.3 | | | | | | | | | |
| 21 | 2.6 | | | | | | | | | |
| 22 | 4.3 | | | | | | | | | |
| 23 | 4.1 | | | | | | | | | |

Time: 30.0°E.
Sweep: 1.8 Mc to 10.0 Mc in ten minutes. Manual operation.

Time: 0.0°O.
Sweep: 0.5 Mc to 16.0 Mc in four minutes.
Median values except for F2-M3000, which are computed from average values.

Table 58 (Supersedes Table 15, TRPL-F20)
Burghhead, Scotland (57.7°N, 3.5°E) February 1946

| Name | h ¹ F2 | f ¹ F2 | h ¹ F1 | f ¹ F1 | h ¹ E | f ¹ E | foE | f ¹ S | f ¹ S | F2-M3000 |
|------|-------------------|-------------------|-------------------|-------------------|------------------|------------------|-----|------------------|------------------|----------|
| 00 | 3.4 | | | | | | | | | |
| 01 | 3.4 | | | | | | | | | |
| 02 | 3.4 | | | | | | | | | |
| 03 | 3.1 | | | | | | | | | |
| 04 | 3.0 | | | | | | | | | |
| 05 | 3.2 | | | | | | | | | |
| 06 | 3.0 | | | | | | | | | |
| 07 | 3.6 | | | | | | | | | |
| 08 | 5.2 | | | | | | | | | |
| 09 | 6.2 | | | | | | | | | |
| 10 | 7.2 | | | | | | | | | |
| 11 | 7.4 | | | | | | | | | |
| 12 | 7.6 | | | | | | | | | |
| 13 | 7.7 | | | | | | | | | |
| 14 | 7.7 | | | | | | | | | |
| 15 | 7.6 | | | | | | | | | |
| 16 | 7.4 | | | | | | | | | |
| 17 | 7.2 | | | | | | | | | |
| 18 | 6.6 | | | | | | | | | |
| 19 | 5.6 | | | | | | | | | |
| 20 | 4.4 | | | | | | | | | |
| 21 | 4.0 | | | | | | | | | |
| 22 | 3.8 | | | | | | | | | |
| 23 | 3.6 | | | | | | | | | |

Time: 0.0°O.
Sweep: 1.0 Mc to 13.0 Mc. Manual operation.

Table 59
March 1946Table 59 (Supersedes Table 15, TRPL-F20)
Moscow (Krasnaya Pekhra), U.S.S.R. (55.5°N, 37.2°E) February 1946

| Name | h ¹ F2 | f ¹ F2 | h ¹ F1 | f ¹ F1 | h ¹ E | f ¹ E | foE | f ¹ S | f ¹ S | F2-M3000 |
|------|-------------------|-------------------|-------------------|-------------------|------------------|------------------|-----|------------------|------------------|----------|
| 00 | 2.6 | | | | | | | | | |
| 01 | 2.6 | | | | | | | | | |
| 02 | 2.6 | | | | | | | | | |
| 03 | 2.4 | | | | | | | | | |
| 04 | 2.4 | | | | | | | | | |
| 05 | 2.4 | | | | | | | | | |
| 06 | 2.6 | | | | | | | | | |
| 07 | 2.6 | | | | | | | | | |
| 08 | 2.6 | | | | | | | | | |
| 09 | 2.6 | | | | | | | | | |
| 10 | 2.6 | | | | | | | | | |
| 11 | 2.6 | | | | | | | | | |
| 12 | 2.6 | | | | | | | | | |
| 13 | 2.6 | | | | | | | | | |
| 14 | 2.6 | | | | | | | | | |
| 15 | 2.6 | | | | | | | | | |
| 16 | 2.6 | | | | | | | | | |
| 17 | 2.6 | | | | | | | | | |
| 18 | 2.6 | | | | | | | | | |
| 19 | 2.6 | | | | | | | | | |
| 20 | 2.6 | | | | | | | | | |
| 21 | 2.6 | | | | | | | | | |
| 22 | 2.6 | | | | | | | | | |
| 23 | 2.6 | | | | | | | | | |

Time: 30.0°E.
Sweep: 1.8 Mc to 10.0 Mc in ten minutes. Manual operation.

January 19/6

Mumbai, India (23°40'N, 77°10'E)

Bombay, India (19°09'N, 73°00'E)

January 1946

Table 66

| Time | h'P2 | f'P2 | h'P1 | f'P1 | h'F | f'F | f'G | f'G | F2-M3000 |
|------|------|------|------|------|-----|-----|-----|-----|----------|
| 00 | 330 | 2.9 | | | | | | | |
| 01 | 330 | 2.9 | | | | | | | |
| 02 | 360 | 2.6 | | | | | | | |
| 03 | 330 | 2.5 | | | | | | | |
| 04 | 360 | 2.5 | | | | | | | |
| 05 | 225 | 2.5 | | | | | | | |
| 06 | 345 | 2.8 | | | | | | | |
| 07 | 310 | 4.7 | | | | | | | |
| 08 | 220 | 6.7 | | | | | | | |
| 09 | 330 | 7.4 | | | | | | | |
| 10 | 360 | 7.6 | | | | | | | |
| 11 | 360 | 8.5 | | | | | | | |
| 12 | 360 | 9.4 | | | | | | | |
| 13 | 345 | 8.2 | | | | | | | |
| 14 | 360 | 8.5 | | | | | | | |
| 15 | 360 | 8.3 | | | | | | | |
| 16 | 360 | 7.5 | | | | | | | |
| 17 | 360 | 6.7 | | | | | | | |
| 18 | 330 | 5.5 | | | | | | | |
| 19 | 360 | 5.2 | | | | | | | |
| 20 | | | | | | | | | |
| 21 | 330 | 3.1 | | | | | | | |
| 22 | 330 | 3.1 | | | | | | | |
| 23 | 330 | 3.0 | | | | | | | |

Time: Local.
 Sweep: Manual operation.
 *M3000, average values; other columns, median values.
 **Height at 0.83 f'P2.

Table 67

| Time | h'P2 | f'P2 | h'P1 | f'P1 | h'F | f'F | f'G | f'G | F2-M3000 |
|------|------|------|------|------|-----|-----|-----|-----|----------|
| 00 | | | | | | | | | |
| 01 | | | | | | | | | |
| 02 | | | | | | | | | |
| 03 | | | | | | | | | |
| 04 | | | | | | | | | |
| 05 | | | | | | | | | |
| 06 | | | | | | | | | |
| 07 | 300 | 5.7 | | | | | | | |
| 08 | 330 | 8.2 | | | | | | | |
| 09 | 360 | 8.9 | | | | | | | |
| 10 | 360 | 9.0 | | | | | | | |
| 11 | 420 | 2.8 | | | | | | | |
| 12 | 420 | 8.9 | | | | | | | |
| 13 | 420 | 9.0 | | | | | | | |
| 14 | 420 | 9.6 | | | | | | | |
| 15 | 420 | 9.7 | | | | | | | |
| 16 | 375 | 9.8 | | | | | | | |
| 17 | 360 | 9.8 | | | | | | | |
| 18 | 360 | 9.6 | | | | | | | |
| 19 | 360 | 9.0 | | | | | | | |
| 20 | 320 | 8.4 | | | | | | | |
| 21 | 300 | 8.0 | | | | | | | |
| 22 | 300 | 7.6 | | | | | | | |
| 23 | | | | | | | | | |

Time: Local.
 Sweep: Manual operation.
 *M3000, average values; other columns, median values.
 **Height at C.83 f'P2.

January 19/6

November 1945

Oslo, Norway (59°59'N, 11°09'E)

| Time | h'P2 | f'P2 | h'P1 | f'P1 | h'F | f'F | f'G | f'G | F2-M3000 |
|------|------|------|------|------|-----|-----|-----|-----|----------|
| 00 | | | | | | | | | |
| 01 | | | | | | | | | |
| 02 | | | | | | | | | |
| 03 | | | | | | | | | |
| 04 | | | | | | | | | |
| 05 | | | | | | | | | |
| 06 | | | | | | | | | |
| 07 | 300 | 5.7 | | | | | | | |
| 08 | 330 | 8.2 | | | | | | | |
| 09 | 360 | 8.9 | | | | | | | |
| 10 | 360 | 9.0 | | | | | | | |
| 11 | 420 | 2.8 | | | | | | | |
| 12 | 420 | 8.9 | | | | | | | |
| 13 | 420 | 9.0 | | | | | | | |
| 14 | 420 | 9.6 | | | | | | | |
| 15 | 420 | 9.7 | | | | | | | |
| 16 | 375 | 9.8 | | | | | | | |
| 17 | 360 | 9.8 | | | | | | | |
| 18 | 360 | 9.6 | | | | | | | |
| 19 | 360 | 9.0 | | | | | | | |
| 20 | 320 | 8.4 | | | | | | | |
| 21 | 300 | 8.0 | | | | | | | |
| 22 | 300 | 7.6 | | | | | | | |
| 23 | | | | | | | | | |

Time: Local.
 Sweep: Manual operation.
 *M3000, average values; other columns, median values.
 **Height at 0.83 f'P2.

Time: 15°09'E.
 Sweep: 16.0 Mc to 1.63 Mc in ten minutes.

Washington, D.C.

(Location) Ionosphere Station

TABLE 69.

IONOSPHERE DATA - I

National Bureau Of Standards
(Institution)

TIME: 75° W MERIDIAN

$\text{H}_{\text{F}} \text{ for } \text{August } 1946$
Hourly values of $\text{H}_{\text{F}} \text{ in } \mu\text{m}$ for August 1946
(Hours)

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|--------|--------------------|--------------------|------------------|--------------------|--------------------|--------------------|--------------------|------------------|--------------------|---------------------|---------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|------------------|------------------|--------------------|--------------------|------------------|--------------------|--------------------|-----|
| 1 | 270 | 250 | 300 | 310 | 310 | 290 | (310) | 350 | 350 | 350 | (320) | 390 | 400 | 410 | 360 | 360 | 360 | 350 | (290) | 300 | 260 | 240 | 260 | 280 | |
| 2 | [270] ^a | 280 | (290) | C | C | C | C | C | C | C | (4-30) | (4-30) | (5-30) | 360 | 440 | 360 | 370 | 370 | 340 | [320] ^c | 290 | 250 | 240 | 250 | 280 |
| 3 | 290 | 280 | 280 | 240 | 290 | (280) | (330) | 350 | 390 ^b | (380) | 370 | 380 | [400] ^b | (4-50) | (440) | 420 | 380 | 380 | 330 | 300 | 260 | 240 | 270 | 270 | 270 |
| 4 | 280 | 280 | 290 | 270 | 260 | 260 | 240 | 260 | 270 | 340 | 340 | 330 | 330 | 350 | (360) | 300 | 310 | 280 | 270 | 270 | 260 | 250 | 250 | 270 | |
| 5 | 280 | 270 | 250 | 250 | 270 | 280 | 240 | 260 | 270 | 320 | 360 | 390 | (380) | 370 | 350 | 380 | 340 | 330 | 280 | 240 | 240 | 250 | 250 | 280 | |
| 6 | 300 | 280 | 270 | [270] ^a | (280) | 310 | (290) | 300 | 330 | (390) | (400) | 360 | 410 | [420] ^c | 390 | 390 | 360 | 330 | 300 | 250 | 250 | 260 | 280 | 310 | |
| 7 | [310] ^a | 310 | 280 ^b | [260] ^b | 300 ^b | (310) ^b | 460 ^b | 440 ^b | 450 ^b | 480 ^b | [500] ^b | [500] ^b | [500] ^b | [450] ^b | [450] ^b | 440 ^b | 380 ^b | 310 ^b | 270 ^b | 280 ^b | 290 ^b | 280 ^b | 270 ^b | | |
| 8 | 300 ^b | 280 ^b | 270 ^b | 280 ^b | 260 ^b | 270 | 300 | 410 | 370 | 400 | 370 | 400 | 380 | 380 | 380 | 380 | 330 | 320 | 290 | 280 | 280 | 270 | 260 | 270 | |
| 9 | [280] ^a | 270 | 300 | (300) | (280) | 240 | 290 | 260 | [320] ^a | (340) | 330 | 350 | 380 | 380 | 380 | 380 | 340 | (320) | 320 | 300 | 270 | 270 | 250 | 270 | |
| 10 | 270 | 270 | 250 | 250 | 260 | 260 | 220 | 270 | 320 | 290 | 300 | 340 | 310 | 320 | 320 | 340 | (320) | 320 | 300 | 270 | 270 | 260 | 270 | 260 | |
| 11 | 280 | 300 | 320 | 300 | 280 ^b | 280 ^b | 250 ^b | 500 ^b | 590 ^b | 440 ^b | G | K | 460 ^b | [500] ^b | 500 ^b | 500 ^b | [460] ^b | 480 ^b | 360 ^b | 410 ^b | 310 ^b | 230 ^b | 290 ^b | 280 ^b | |
| 12 | 250 | 240 ^b | 260 ^b | 260 ^b | 270 ^b | 280 ^b | 260 ^b | 270 | 300 | 410 | 370 | 400 | 370 | 400 | 380 | 380 | 410 | 410 | 390 ^b | 340 ^b | 300 | 250 | 240 | [240] ^b | |
| 13 | [280] ^a | 310 ^b | 310 ^b | 310 ^b | 300 ^b | 300 ^b | (270) ^b | 350 ^b | 350 ^b | (4-10) ^b | [4-20] ^b | C | K | [380] ^b | (370) ^b | (370) ^b | 370 | 370 | 350 | 300 | [270] ^a | 250 | 250 | [250] ^b | |
| 14 | 320 ^b | 300 ^b | 320 ^b | 320 ^b | 270 ^b | 310 ^b | 310 ^b | 380 ^b | [500] ^b | [450] ^b | [450] ^b | [450] ^b | [450] ^b | [450] ^b | [450] ^b | [450] ^b | 410 | 400 | 350 | 280 | 260 | 240 | 270 | | |
| 15 | 300 | 300 | 270 | 260 | 250 | 250 | 260 | 340 | 310 | 280 ^b | 280 ^b | 250 ^b | 260 | 340 | (340) ^b | (380) | 440 | (370) | 360 | 350 | 290 | 280 | 250 | 270 | |
| 16 | 290 | 270 | 280 | 260 | 300 | 290 | 240 ^b | 370 ^b | 410 ^b | 360 ^b | 480 ^b | 420 ^b | 420 ^b | 420 ^b | 420 ^b | 420 ^b | 390 ^b | 380 ^b | 380 ^b | 370 | 370 | 300 | 250 | [240] ^b | |
| 17 | 320 | 300 ^b | 300 ^b | 300 ^b | 290 ^b | 320 ^b | 260 ^b | 370 ^b | 390 ^b | 530 ^b | 620 | 570 ^b | 550 ^b | 520 ^b | 480 ^b | 450 ^b | 450 ^b | 450 ^b | 380 ^b | 310 ^b | 260 | 260 | 270 | | |
| 18 | 290 | 270 | 300 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | | |
| 19 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | | |
| 20 | 270 | 270 | 260 | 250 | 270 | 260 | 250 | 290 | 310 | 320 | 310 | 340 | 320 | 370 | 370 | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 360 | |
| 21 | 280 | 280 | 250 | 250 | 260 | 260 | 250 | 230 | 240 | 260 | 310 | 320 | 320 | 340 | 350 | 330 | 300 | 300 | 300 | 270 | 250 | 230 | 220 | 210 | |
| 22 | [300] ^a | 270 | 260 | 240 | 240 | 250 | 250 | 270 | 280 | 270 | 270 | 290 | (300) | [330] ^b | (350) | (340) | (310) | 300 | 270 | 260 | 230 | 230 | 220 | 210 | |
| 23 | C | 270 | 260 | 250 | 250 | 250 | 250 | 260 | 300 | 280 | 320 | 330 | 330 | [340] ^c | 330 | 330 | [320] ^c | 300 | 290 | 260 | 250 | 230 | 230 | 260 | |
| 24 | 260 | 260 | 270 | 290 | 280 | 280 | 250 | 270 | 270 | 300 | 330 | 330 | 330 | 330 | 330 | 320 | 320 | 300 | 270 | [270] ^a | 260 | 240 | 250 | 290 | |
| 25 | 280 | C | C | 270 | [260] ^a | 310 | [310] ^a | 340 | 430 | 430 | 430 | 430 | 430 | [4-0] ^b | [4-0] ^b | 340 | [3-7] ^b | 350 | 340 | (270) | 230 | 260 | 250 | 240 | |
| 26 | 260 | 260 | 250 | 260 | 260 | 250 | 270 | 260 | 270 | 270 | 270 | 280 | 280 | 340 | 320 | 320 | [3-3] ^b | 320 | 270 | 250 | 230 | 230 | [240] ^b | 250 | |
| 27 | 280 | 300 | 300 | 280 | 260 | 260 | 250 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | | |
| 28 | 270 | 280 | 270 | 270 | 270 | 270 | 260 | 270 | 270 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | | |
| 29 | 270 | 270 | 250 | 250 | 270 | 240 | 230 | 230 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 240 | | |
| 30 | 270 | [280] ^a | 230 | 250 | 250 | 270 | 240 | 240 | 250 | 250 | 280 | 310 | 310 | 310 | 310 | 310 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | | |
| 31 | 350 ^b | 410 ^b | 390 ^b | 370 ^b | 300 ^b | 230 ^b | 230 ^b | 260 ^b | 430 ^b | 430 ^b | 430 ^b | 430 ^b | 430 ^b | 430 ^b | 430 ^b | 430 ^b | 430 ^b | 430 ^b | 430 ^b | A | A | A | | | |
| Sum | | | | | | | | | | | | | | | | | | | | | | | | | |
| Median | 280 | 270 | 270 | 275 | 275 | 250 | 280 | 315 | 320 | 340 | 355 | 380 | 380 | 360 | 360 | 340 | 300 | 280 | 250 | 240 | 250 | 260 | 280 | | |
| Count | 29 | 29 | 27 | 28 | 28 | 28 | 28 | 28 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 29 | 30 | 30 | 29 | 29 | 29 | | |

Records measured by A.K.B.
J.L.S.

TABLE 70

Washington, D.C. Ionosphere Station
National Bureau Of Standards
 (Institution)

IONOSPHERE DATA-2

Hourly values of F_2 for August
 (Month)

Records measured by:
 A.K.B.
 J.L.S.

TIME: 75°W MERIDIAN

Hourly values of F_2 for August
 (Month)

Records measured by:
 A.K.B.
 J.L.S.

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|--------------|--------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| 1 | (7.2) (5.8) ^T | 5.1 | 4.8 | 3.9 ^F | 3.9 | 5.1 | 5.9 | 6.4 | (7.0) ^T | (7.2) | 7.2 | 7.2 | 7.6 | 8.0 | 7.6 | 7.3 | 7.4 | 7.8 | (7.1) | (7.1) | (6.8) | 6.8 | (6.9) ^T | |
| 2 | 6.1 | (5.4) ^T | 5.2 | C | C | C | C | C | (6.3) ^T | 6.4 | (7.4) | (6.8) | 7.6 | 7.6 | 7.6 | [7.8] ^C | 7.6 | (7.0) | 7.4 | 6.7 | (6.2) | (6.1) | | |
| 3 | (6.1) ^T | 6.0 | (6.1) | (5.2) | (4.6) | (4.2) ^T | 5.3 | 5.8 | (6.1) ^H | (6.0) | (6.4) | [6.1] ^C | (6.0) | 6.4 | 6.6 | 6.6 | 6.6 | 6.7 | (6.2) ^T | (6.2) | (6.4) | (5.8) | (5.4) ^T | |
| 4 | 5.0 ^R | 4.9 ^F | 4.9 ^F | (4.5) ^T | 4.4 ^F | 4.3 ^F | (6.0) | 7.3 | 7.6 | 7.4 | 8.4 | 8.6 | 8.2 | 8.4 | 8.1 | 7.9 | 7.8 | 8.2 | (8.2) | (7.2) | 7.0 | (6.4) | | |
| 5 | 6.1 | 6.1 | 5.8 | (5.6) ^T | 4.9 | 4.9 | 4.9 | 6.4 | (7.6) | (7.2) | 7.2 | 7.2 | 7.0 | 7.2 | 7.2 | (7.2) | 7.2 | 7.4 | 7.8 | (8.4) | (7.4) | (6.8) ^T | (6.0) ^T | |
| 6 | (5.6) ^T | 5.3 | 4.9 ^F | 4.4 ^F | 3.9 ^F | 4.0 ^F | 5.2 | 6.2 | 6.5 | 6.8 | 6.7 | 7.0 | [7.0] ^C | 7.0 | 7.1 | 7.2 | (7.3) ^T | (7.5) ^T | (7.4) ^T | (6.3) ^T | (6.3) ^T | (5.8) | (5.5) ^T | |
| 7 | 5.4 | 5.3 | 5.6 ^K | 4.9 ^K | 3.6 ^K | 3.4 ^K | 4.5 ^K | 5.0 ^K | 5.2 ^K | 5.3 ^K | (4.9) ^K | (5.7) ^K | 5.9 ^K | [5.9] ^K | 6.0 ^K | 6.0 ^K | 5.8 ^K | 5.8 ^K | 5.5 ^K | 5.5 ^K | 5.7 ^K | 5.3 ^K | 4.7 ^K | |
| 8 | (4.2) ^K | 4.2 ^K | 4.0 ^K | 3.8 ^K | 3.7 ^K | (4.1) ^K | (5.7) ^K | (6.0) | 6.7 | 6.6 | 6.8 | 6.8 | 7.0 | 7.0 | 6.8 | 7.2 | [7.3] ^A | (7.4) | (7.4) | (6.9) | (6.8) | 6.0 | 5.7 | |
| 9 | [5.5] ^A | (5.4) ^T | (4.8) | 4.3 | (3.9) | 3.7 | 5.0 | (5.8) ^T | 6.9 | 7.6 | 7.8 | 7.8 | 7.9 | 7.6 | 8.4 | 8.0 | 8.0 | 7.5 | 7.8 | (8.2) | (6.4) ^T | 6.0 | (5.6) ^T | |
| 10 | 5.8 | (5.3) | 4.9 | (4.2) ^T | 4.0 | 4.0 | 5.5 | 6.9 | 8.0 | 8.7 | 9.0 | 8.8 | 9.0 | (8.4) | 8.7 | 8.6 | 8.6 | 8.6 | 8.6 | (9.2) | 8.8 | (7.4) | 7.0 | (6.4) ^T |
| 11 | 6.0 | (5.5) ^T | 5.4 | 5.2 | 5.1 ^K | 4.6 ^K | 4.7 ^K | (5.0) ^K | (5.5) ^K | <5.0 ^K | 5.7 ^K | [5.9] ^K | 5.8 ^K | [6.0] ^K | 6.2 ^K | 6.4 ^K | 7.0 ^K | 6.0 ^K | 5.5 ^K | |
| 12 | 5.0 ^K | 4.4 ^K | 3.8 ^K | 3.1 ^K | 2.8 ^K | 2.9 ^K | 4.4 ^K | 5.0 ^K | (5.3) ^K | (5.8) ^K | 6.0 ^K | (5.7) ^K | 6.0 ^K | 6.3 ^K | 6.0 ^K | 6.2 ^K | 6.2 ^K | (6.3) ^K | (6.2) ^K | (6.2) ^K | (6.2) ^K | (4.5) ^K | | |
| 13 | 3.6 ^K | 3.2 ^K | (3.2) ^K | (2.9) ^T | (2.7) ^T | (2.7) ^T | 3.1 ^K | 4.7 ^K | 5.2 ^K | (5.2) ^K | (5.8) ^K | (5.0) ^K | (6.0) ^K | 6.0 ^K | 6.2 ^K | 6.3 ^K | (6.4) ^K | (6.0) ^K | | |
| 14 | 4.9 ^K | 4.6 ^K | 4.4 ^K | 4.2 ^K | 3.6 ^K | 3.0 ^K | 3.9 ^K | (4.7) ^K | (5.0) ^K | (5.0) ^K | (5.5) ^K | (6.0) ^K | (6.0) ^K | 6.6 ^K | (6.2) ^K | 6.0 ^K | 6.4 ^K | 6.2 ^K | 6.2 ^K | 6.4 ^K | 6.0 ^K | (6.4) ^K | | |
| 15 | (4.7) | (4.8) | 3.9 | 2.8 | 2.8 | 2.8 | 4.5 | 5.3 | 6.7 | (7.2) | 7.2 | (6.9) | 7.4 | 7.0 | 7.1 | 7.3 | 7.1 | 7.1 | 7.1 | 7.6 | (7.8) | 6.9 | (6.0) ^T | |
| 16 | 4.8 | (4.5) | 3.9 | 3.7 | (3.4) ^T | (2.7) | 4.2 ^K | 4.9 ^K | 5.3 ^K | 5.6 ^K | 5.4 ^K | 6.0 ^K | 6.1 ^K | 6.6 ^K | 6.8 ^K | 6.8 ^K | 7.7 ^K | 8.0 ^K | 8.6 ^K | (8.8) ^K | 7.5 ^K | (7.2) ^K | (5.7) ^K | |
| 17 | 3.9 ^K | 4.0 ^K | 3.5 ^K | (3.1) ^T | (2.1) ^T | (2.1) ^T | 2.4 ^K | 4.1 ^K | 5.1 ^K | 5.1 ^K | 5.3 ^K | 5.3 ^K | 5.3 ^K | 5.4 ^K | 5.7 ^K | 5.7 ^K | 5.6 ^K | 6.0 ^K | 6.0 ^K | (6.0) ^K | 5.7 ^K | (5.0) ^K | | |
| 18 | (4.5) ^T | 3.9 ^T | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | |
| 19 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | |
| 20 | 5.2 | 4.8 | 4.6 | 4.1 | 3.8 | 3.4 | 4.9 | 6.0 | 6.7 | 7.2 | 7.5 | (7.4) ^T | 7.3 | 7.4 | 7.6 | 7.6 | 7.9 | 7.9 | 8.5 | 8.4 | (7.6) | (6.5) | (6.1) | |
| 21 | 5.3 | 5.2 | 5.1 | 4.5 | 4.0 | 3.7 | 5.6 | 7.2 | (8.0) ^T | 8.5 | 8.4 | 8.6 | 8.6 | 8.7 | 8.8 | 8.8 | 8.5 | 8.6 | (8.4) | (8.8) | [8.2] ^C | (7.4) | (6.5) ^T | |
| 22 | [6.0] ^T | 5.9 | 5.6 | 5.2 | 4.6 | 4.2 | (5.5) | [6.6] ^C | 8.1 | 8.0 | 8.4 | 8.5 | 9.0 | 8.9 | 8.6 | 8.7 | C | C | C | C | C | C | C | |
| 23 | C | 5.6 | 5.4 | 5.0 | 4.6 | [4.3] ^C | 6.0 | 7.8 | 8.4 | 8.8 | (8.9) ^T | 8.9 | 9.0 | 8.9 | (8.9) | [8.9] ^C | 8.9 | (8.6) | C | C | C | C | C | |
| 24 | (5.9) | 5.7 | 5.2 | 5.1 | 4.9 | 4.8 | 5.8 | 7.6 | 8.6 | 9.2 | 9.5 | 10.0 | (10.2) | 10.0 | (9.5) | 9.1 | 8.8 | 8.4 | 8.5 | (8.2) | 7.1 | [6.7] ^C | 6.4 | |
| 25 | (6.1) | C | C | C | 4.6 | (4.0) | 5.0 | 5.5 | 6.1 | 5.8 | 6.6 | 6.7 | 7.0 | [7.0] ^C | [7.0] ^C | 7.1 | 7.0 | 6.6 | 6.9 | 7.0 | 6.8 | 6.1 | (5.8) | |
| 26 | 5.3 | 5.1 | 4.9 | 4.5 | 4.1 | 3.9 | (5.5) | 7.1 | 8.4 | 8.3 | 8.6 | 8.6 | 8.6 | 8.9 | [8.9] ^C | 8.8 | 8.5 | 8.4 | (8.9) | 8.4 | (7.6) ^T | (6.3) | 6.0 | |
| 27 | 5.6 | 5.3 | 5.0 | 5.3 | 4.7 | 5.7 | 5.7 | 7.6 | 8.2 | 8.2 | 8.7 | 8.7 | 8.9 | 8.9 | 8.7 | 8.7 | 8.5 | 8.7 | (8.1) | (7.3) | 6.3 | 6.0 | | |
| 28 | 5.7 | 5.6 | 5.5 | 5.3 | 5.0 | (4.1) | 4.9 | 5.4 | 6.3 | 6.9 | 7.3 | 8.0 | 8.9 | 8.5 | 8.9 | 8.7 | 8.7 | 8.5 | (7.8) ^C | [7.3] ^C | [6.8] ^C | (6.4) | | |
| 29 | (5.9) | (5.8) | 5.6 | 4.8 | 4.5 | 3.8 | (5.7) | [7.5] ^C | 8.3 | 8.8 | (9.2) | (8.8) | 9.5 | (9.8) | 9.6 | 9.4 | (9.2) | 9.2 | (9.4) | (9.0) | (8.2) | (7.2) | (7.3) | |
| 30 | (6.3) | 5.9 | 5.5 | 5.0 | 4.5 | 4.3 | 5.4 | 6.6 | 7.2 | 8.0 | 8.3 | (8.4) | 8.8 | 8.8 | 9.0 | 8.8 | 9.2 | (9.2) | (9.0) | C | C | C | C | |
| 31 | 6.0 ^K | 2.6 ^K | (2.8) ^K | (3.5) ^K | 3.8 ^K | 4.1 ^K | 4.8 ^K | (5.5) | 6.0 ^K | (5.7) ^K | (6.0) ^K | (6.0) ^K | 6.0 ^K | [5.8] ^K | [5.8] ^K | (5.8) ^K | 5.8 ^K | 6.0 ^K | 6.2 ^K | 5.8 ^K | (5.1) ^K | 4.8 ^K | | |
| Total | 5.6 | 5.3 | 4.9 | 4.5 | 4.0 | 4.0 | 5.2 | 6.0 | 7.0 | 7.2 | 7.1 | 7.4 | 7.4 | 7.5 | 7.6 | 7.8 | (7.8) | 7.2 | (6.7) | (6.0) | (5.6) | | | |
| Count | 29 | 27 | 29 | 27 | 26 | 28 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 27 | 27 | 29 | |

Washington, D.C.

IONOSPHERE DATA - 3

Ionosphere Station

TABLE 71

National Bureau Of Standards

(Institution) (Location)

Hourly values of $\delta^o F_2$ in $\frac{1}{10}$ sec August 1946 (Bona)Records measured by: A.K.B.
J.L.S.

TIME: 75°W MERIDIAN

| Day | 0030 | 0130 | 0230 | 0330 | 0430 | 0530 | 0630 | 0730 | 0830 | 0930 | 1030 | 1130 | 1230 | 1330 | 1430 | 1530 | 1630 | 1730 | 1830 | 1930 | 2030 | 2130 | 2230 | 2330 | |
|--------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|------------------|
| 1 | 6.2 | 5.2 | 4.8 | (4.4) ^J | 4.0 | 4.5 | 5.4 | (6.4) ^J | 6.6 | (7.0) | 7.0 | 7.6 | 7.9 | 7.8 | 7.4 | (7.4) ^J | 7.5 | 7.8 | (7.2) | 7.1 | 6.8 | 6.2 | 6.1 | | |
| 2 | (5.8) ^J | 5.4 | C | C | C | C | C | C | 6.2 | (6.0) | [6.3] ^C | 7.0 | 7.0 | 7.4 | 7.4 | 7.8 | 7.9 | 7.6 | 7.5 | (7.4) | (7.0) | (6.2) | (6.1) | | |
| 3 | 6.0 | 6.2 | (5.8) ^J | (5.0) | 4.3 | 4.7 | 5.6 | 6.1 | 6.4 | [6.2] ^C | 5.9 | (6.2) | 6.4 | 6.4 | 6.5 | 6.8 | 6.6 | 6.7 | (6.2) ^J | (6.2) | 6.2 | (5.2) ^J | (5.1) | | |
| 4 | 5.1 | 4.9 ^F | 4.7 ^F | 4.5 ^F | 4.2 ^F | 5.0 | 6.6 | (7.2) | 7.2 | 7.8 | 8.6 | 8.4 | 8.3 | 8.2 | 8.1 | 7.8 | 8.0 | 7.8 | 8.2 | (7.5) | 7.2 | 6.8 | 6.3 | | |
| 5 | (6.2) | 6.0 | (5.8) ^J | 5.1 | 4.6 | (5.8) ^J | 7.2 | 7.3 | (7.8) | (7.4) | (7.0) | 7.4 | (7.3) | 7.3 | 7.2 | 7.2 | 7.3 | 7.8 | (8.2) | (8.0) | (7.0) ^J | (6.4) ^J | (5.5) ^J | | |
| 6 | (5.5) ^J | 5.2 | 5.0 | 4.2 | 3.9 | 4.7 | 5.8 | 6.4 | 6.6 | 7.0 | 7.2 | 7.0 | 6.9 | 7.0 | 7.0 | 7.0 | 7.3 | 7.6 | 7.0 | (6.4) ^J | (6.2) | (5.7) | 5.5 | | |
| 7 | (5.4) | 5.4 | (5.3) ^K | 4.0 ^K | (3.4) ^K | 3.9 ^K | 4.8 ^K | 5.2 ^K | (5.5) ^K | (5.3) ^K | (6.0) ^K | (5.9) ^K | (5.9) ^K | (5.9) ^K | 6.2 ^K | 5.9 ^K | (5.8) ^K | (5.8) ^K | 5.8 ^K | 5.5 ^K | 5.9 ^K | 5.5 ^K | 5.0 ^K | | |
| 8 | 4.2 ^K | 4.0 ^K | 3.8 ^K | 3.7 ^K | 3.7 ^K | 4.1 ^K | 5.1 ^K | 6.6 | 6.8 | 7.0 | (6.6) | (6.8) ^J | 6.7 | 7.0 | 6.8 | 7.2 | 7.2 | 7.4 | 7.8 | (7.2) | 7.2 | 6.6 | (5.8) | 5.7 | |
| 9 | (5.5) | (5.2) | (4.3) | 4.0 | 3.7 | 4.2 | 5.3 | 6.3 | 7.3 | [7.7] ^A | 7.8 | 7.8 | 7.8 | 7.8 | 8.2 | 8.0 | 8.0 | 7.6 | (8.2) | (8.0) | (8.0) | (6.4) ^J | 6.0 | | |
| 10 | (5.5) ^J | 5.3 | 4.7 | 4.3 | 3.8 | 4.7 | 6.2 | 7.6 | 8.5 | 8.8 | 8.8 | 8.8 | 8.6 | 9.0 | 8.4 | 8.6 | 9.0 | 8.8 | [9.0] ^C | (8.2) | 7.0 | 6.8 | 6.2 | | |
| 11 | 5.6 | (5.3) | (5.4) ^J | 5.1 | 5.0 ^K | 4.5 ^K | 4.7 ^K | 4.9 ^K | (5.3) ^K | (5.3) ^K | (5.3) ^K | (5.3) ^K | (5.3) ^K | (5.3) ^K | 6.0 ^K | 6.0 ^K | 6.3 ^K | (6.0) ^K | 6.3 ^K | (6.4) ^K | 5.7 ^K | (5.6) ^J | 5.3 ^K | | |
| 12 | 4.8 ^K | 4.2 ^K | 3.5 ^K | 2.9 ^K | 2.9 ^K | (2.6) ^J | 3.6 ^K | 4.6 ^K | 5.2 ^K | (5.8) ^J | (6.0) ^K | (6.0) ^K | (6.2) ^K | (6.2) ^K | 6.4 ^K | (6.2) ^K | 6.6 ^K | 3.8 ^K | | | |
| 13 | 3.4 ^F | (3.3) ^K | (3.0) ^J | (3.0) ^J | (2.8) ^J | (3.8) ^J | 4.9 ^K | 5.2 ^K | (5.2) ^K | (5.6) ^J | 6.0 ^K | 5.8 ^K | 6.0 ^K | 6.2 ^K | 6.2 ^K | 6.4 ^K | 6.6 ^K | (4.8) ^J | | | |
| 14 | 4.9 ^K | 4.3 ^K | (4.1) ^K | 2.8 ^K | (4.2) ^J | (4.4) ^J | 4.5 ^K | [5.5] ^C | (6.0) ^K | (6.4) ^J | 6.4 ^K | 6.3 ^K | 6.0 ^K | (6.8) ^K | 7.0 ^K | 7.2 ^K | 7.7 ^K | 6.6 | | | |
| 15 | (4.7) | (4.5) | 4.0 | 3.1 | 2.4 | 3.7 | 5.0 | (6.2) ^J | (7.4) | (7.4) | (7.4) | (7.4) | (7.4) | (7.4) | 6.9 | 7.0 | 7.4 | 7.5 | 7.1 | 7.1 | (7.2) | (7.8) ^J | 6.2 | (5.4) | |
| 16 | 4.6 | 4.2 | 3.9 | (3.6) ^J | 2.7 ^F | (3.7) | 3.6 ^K | 4.6 ^K | 5.2 ^K | 5.6 ^K | (5.8) ^J | (6.0) ^K | (5.9) ^K | (6.2) ^K | (6.2) ^K | 6.4 ^K | (6.2) ^K | 6.6 ^K | 4.3 ^K | | |
| 17 | 3.9 ^K | 3.6 ^K | 3.2 ^K | (2.6) ^J | (1.9) ^J | 3.3 ^K | 4.5 ^K | <4.8 ^K | (5.0) ^K | 5.2 ^K | (5.2) ^K | (5.6) ^J | (5.6) ^J | (5.6) ^J | 6.0 ^K | 5.8 ^K | 6.2 ^K | 6.2 ^K | 6.4 ^K | (6.2) ^K | (5.9) ^K | 5.3 ^K | | | |
| 18 | 4.4 ^F | 4.2 ^F | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | | |
| 19 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | | |
| 20 | 4.9 | 4.7 | 4.3 | 4.0 | (3.4) ^J | 4.1 | 4.5 ^K | 5.1 ^K | 5.7 ^K | 5.7 ^K | (5.3) ^K | (5.3) ^K | (5.3) ^K | (5.3) ^K | (5.3) ^K | 6.7 ^K | 6.7 ^K | 6.7 ^K | 7.2 ^K | 8.0 ^K | 8.6 ^K | [8.7] ^C | (8.4) ^K | 4.7 ^K | 3.9 ^K |
| 21 | 5.3 | 5.1 | 4.8 | 4.2 | 3.7 | 4.6 | 6.4 | 7.6 | 8.3 | 8.2 | 8.6 | 8.4 | 8.3 | 8.8 | 8.9 | 8.6 | 8.5 | (8.6) | 8.6 | 8.8 | [8.5] ^C | (8.7) ^J | 6.8 | [6.2] ^C | |
| 22 | 5.7 | 5.9 | 5.6 | 5.1 | 4.3 | 4.8 | [6.0] ^C | 7.2 | (8.4) ^J | 8.3 | 8.4 | 8.6 | 8.6 | 8.8 | 8.8 | 8.7 | (8.6) | 8.6 | C | C | C | C | C | C | |
| 23 | C | C | 5.5 | 5.2 | 4.7 | 4.4 | 5.1 | [6.6] ^C | 8.2 | 8.4 | (9.0) ^J | 8.8 | 9.0 | 8.9 | 9.1 | 9.1 | 9.0 | 8.5 | C | C | C | C | C | C | |
| 24 | (5.9) | 5.4 | 5.0 | 5.0 | 4.7 | 4.9 | 6.6 | 8.1 | 9.2 | 9.4 | 10.2 | (9.7) | 9.2 | 8.9 | 8.7 | 8.5 | 8.5 | 8.5 | (8.4) ^J | (7.8) ^J | 7.0 | (6.2) | (5.8) ^J | 5.3 | |
| 25 | (5.7) | C | 4.8 | 4.2 | 4.5 | 5.6 | 5.8 | 6.1 | 6.4 | 6.4 | [6.9] ^C | 6.9 | [7.0] ^C | 7.0 | 6.8 | 6.8 | 6.8 | 6.8 | (7.2) | (6.9) | (6.2) | 6.0 | 5.5 | | |
| 26 | 5.3 | 5.0 | 4.6 | 4.2 | 3.9 | 4.6 | 6.3 | 8.0 | 8.9 | 8.8 | 8.4 | 8.9 | 9.0 | [8.9] ^C | 8.8 | 8.6 | 8.7 | 8.7 | (9.2) | (8.1) | (7.0) | (6.1) | 5.7 | | |
| 27 | 5.3 | 5.3 | 5.2 | 5.3 | 4.9 | 4.9 | 6.8 | 8.3 | 8.9 | 8.8 | 9.0 | 9.0 | 9.6 | 9.7 | 9.9 | 9.2 | 9.1 | (8.3) | 8.1 | 6.7 | (6.1) | 6.0 | | | |
| 28 | 5.7 | 5.1 | 5.5 | 5.0 | 4.3 | 5.4 | 5.6 | 6.7 | 7.1 | 7.6 | 8.7 | 8.9 | 8.6 | 8.7 | 8.7 | 8.6 | 8.6 | (8.3) | (7.8) | [7.0] ^C | [6.5] ^C | 6.0 | | | |
| 29 | 5.8 | 5.0 | 4.7 | 3.9 | 4.7 | [6.5] ^J | [8.0] ^C | (8.6) ^J | 9.0 | (9.2) ^J | 10.0 | 9.4 | [9.3] ^C | (9.2) | [9.2] | [9.2] | [9.2] | [9.2] | [9.2] | [9.2] | [9.2] | [9.2] | 7.0 | | |
| 30 | 6.0 | 5.8 | 5.2 | 4.8 | 4.3 | 4.6 | 6.2 | (7.2) | 7.7 | 8.4 | 8.2 | (8.6) | 8.8 | 8.8 | 9.2 | 9.0 | 9.3 | 8.8 | C | C | C | C | (7.2) | | |
| 31 | (3.5) ^K | 2.8 ^F | 3.3 ^F | 5.6 ^K | (3.8) ^K | 5.3 ^K | 4.6 ^K | 6.0 ^K | 5.3 ^K | 5.5 ^K | (5.9) ^K | (5.9) ^K | (5.9) ^K | (5.9) ^K | (5.9) ^K | (5.6) ^K | [5.6] ^C | | | |
| Sum | 5.4 | 5.2 | 4.8 | 4.2 | 4.0 | 4.6 | 5.6 | 6.4 | 6.9 | 7.0 | 7.2 | 7.4 | 7.3 | 7.6 | 7.6 | 7.8 | 7.4 | (7.0) | (6.2) | (5.8) | 5.5 | | | | |
| Median | 2.9 | 2.7 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.9 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 2.9 | 2.7 | 2.7 | 2.7 | 2.9 | | | |
| Count | 29 | 29 | 27 | 28 | 28 | 28 | 28 | 28 | 29 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 29 | 27 | 27 | 27 | 29 | | | |

TABLE 73
IONOSPHERE DATA-5
Washington DC

Washington, D.C. Ionosphere station

National Bureau Of Standards

Records measured by: A.K.B.
J.L.S.

31

Washington, D.C.

(Location)

National Bureau Of Standards

(Investigation)

TABLE 74
IONOSPHERE DATA - 6

Ionosphere station

Hourly values of $\frac{1}{\text{E}} \frac{\text{in}^2}{\text{cu ft}}$ for August 1946
 Month

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
|--------|----|----|----|----|--------|-----|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 | | | | | C | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | | |
| 2 | | | | | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | | |
| 3 | | | | | 120 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 120 | |
| 4 | | | | | 110 | 120 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 120 | |
| 5 | | | | | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 120 | |
| 6 | | | | | C | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | |
| 7 | | | | | 110 | K | 120 | K | 110 | K | C |
| 8 | | | | | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | |
| 9 | | | | | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | C |
| 10 | | | | | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 120 |
| 11 | | | | | 110 | K | (110)K | 110 | K |
| 12 | | | | | C | K | 110 | K | 110 | K | 110 | K | 110 | K | 110 | K | 110 | K | 110 | K | 110 | K | 110 | K | 110 |
| 13 | | | | | 110 | K | 110 | K | 110 | K | 110 | K | 110 | K | 110 | K | 110 | K | 110 | K | 110 | K | 110 | K | 110 |
| 14 | | | | | 120 | K | 110 | K | 110 | K | 110 | K | 110 | K | 110 | K | 110 | K | 110 | K | 110 | K | 110 | K | 110 |
| 15 | | | | | C | 120 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | C |
| 16 | | | | | 120 | K | 110 | K | 110 | K | 110 | K | 110 | K | 110 | K | 110 | K | 110 | K | 110 | K | 110 | K | 120 |
| 17 | | | | | 110 | K | 110 | K | 110 | K | 110 | K | 110 | K | 110 | K | 110 | K | 110 | K | 110 | K | 110 | K | 110 |
| 18 | | | | | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | | |
| 19 | | | | | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | | |
| 20 | | | | | 130 | H | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | |
| 21 | | | | | [110]C | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | |
| 22 | | | | | 120 | 110 | 110 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | |
| 23 | | | | | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 120 | |
| 24 | | | | | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 120 | |
| 25 | | | | | [110]C | 110 | 110 | 110 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | |
| 26 | | | | | 110 | 110 | 110 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | |
| 27 | | | | | 110 | N | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 120 | |
| 28 | | | | | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 120 | |
| 29 | | | | | 120 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 120 | |
| 30 | | | | | 110 | H | 110 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | |
| 31 | | | | | 110 | K | 120 | K | 110 | K | |
| Sum | | | | | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 120 | |
| Median | | | | | 25 | 28 | 28 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | | |
| Count | | | | | | | | | | | | | | | | | | | | | | | | | |

Records measured by: A.K.B.

J.L.S.

TABLE 75
IONOSPHERE DATA - 7

Washington, D.C. Ionosphere station

National Bureau Of Standards
(Institution)

Hourly values of $t^{\circ}\text{E}$ in No for AUGUST 1946
(Month) Records measured by: A. K. B.
J. L. S.

Washington, D.C. Ionosphere station
 Location: Institution: National Bureau of Standards

TABLE 76
 IONOSPHERE DATA - 8

TIME: 75° W MERIDIAN
 TIME: 75° W MERIDIAN

Hourly values of E_s in no for August 1946
 (Month)

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|--------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 1 | 75 / 30 | 32 / 20 | 38 / 10 | 43 / 20 | 43 / 10 | 37 / 10 | 38 / 100 | 36 / 10 | 64 / 10 | 80 / 10 | 37 / 10 | 39 / 10 | 52 / 100 | 38 / 100 | 40 / 100 | 37 / 100 | 16 / 100 | 15 / 100 | 16 / 100 | 15 / 100 | 15 / 100 | 15 / 100 | 15 / 100 | |
| 2 | 44 / 10 | 38 / 10 | 35 / 10 | 32 / 10 | C | C | C | C | C | C | 72 / 10 | 68 / 10 | 52 / 100 | 40 / 10 | 42 / 40 | 40 / 30 | 52 / 100 | 40 / 100 | 34 / 100 | 36 / 100 | 23 / 20 | 47 / 20 | 27 / 10 | |
| 3 | 48 / 10 | 38 / 10 | 32 / 10 | 35 / 10 | 43 / 20 | 28 / 20 | 53 / 10 | 51 / 10 | 40 / 10 | 40 / 10 | 40 / 10 | 40 / 10 | 48 / 10 | 47 / 30 | 48 / 10 | 37 / 20 | 37 / 20 | 37 / 20 | 37 / 20 | 37 / 20 | 37 / 20 | 37 / 20 | 37 / 20 | |
| 4 | 29 / 10 | 23 / 10 | 37 / 10 | 32 / 10 | 31 / 20 | 44 / 20 | 38 / 120 | 36 / 120 | 47 / 10 | 52 / 10 | 41 / 10 | 41 / 10 | 39 / 100 | 43 / 30 | 43 / 100 | 43 / 100 | 45 / 100 | 45 / 100 | 45 / 100 | 45 / 100 | 44 / 100 | 44 / 100 | 44 / 100 | 44 / 100 |
| 5 | 14 / 10 | 25 / 10 | 53 / 10 | 60 / 10 | 53 / 100 | 53 / 100 | 53 / 100 | 53 / 100 | 53 / 100 | 53 / 100 | 53 / 100 | 53 / 100 | 53 / 100 | 53 / 100 | 53 / 100 | 53 / 100 | 53 / 100 | 53 / 100 | 53 / 100 | 53 / 100 | 53 / 100 | 53 / 100 | 53 / 100 | |
| 6 | 30 / 10 | 25 / 10 | 53 / 10 | 60 / 10 | 53 / 100 | 41 / 10 | 66 / 100 | 53 / 100 | 50 / 100 | 53 / 100 | 50 / 100 | 53 / 100 | 42 / 100 | 42 / 100 | 40 / 100 | 40 / 100 | 40 / 100 | 40 / 100 | 40 / 100 | 40 / 100 | 40 / 100 | 40 / 100 | 40 / 100 | |
| 7 | 48 / 10 | 38 / 10 | 31 / 10 | 52 / 10 | 41 / 10 | 39 / 100 | 50 / 100 | 38 / 100 | 40 / 100 | 38 / 100 | 40 / 100 | 38 / 100 | 40 / 100 | 38 / 100 | 40 / 100 | 38 / 100 | 38 / 100 | 38 / 100 | 38 / 100 | 38 / 100 | 38 / 100 | 38 / 100 | 38 / 100 | |
| 8 | 14 / 10 | 24 / 100 | 13 / 10 | 38 / 20 | 29 / 100 | 39 / 120 | 39 / 120 | 38 / 120 | 38 / 120 | 38 / 120 | 40 / 110 | 42 / 120 | 53 / 120 | 50 / 110 | 42 / 110 | 54 / 120 | 57 / 120 | 57 / 120 | 57 / 120 | 57 / 120 | 57 / 120 | 57 / 120 | 57 / 120 | |
| 9 | 82 / 100 | 45 / 100 | 29 / 10 | 35 / 100 | 30 / 100 | 38 / 10 | 41 / 100 | 53 / 110 | 66 / 100 | 113 / 100 | 52 / 100 | 53 / 110 | 52 / 110 | 51 / 110 | 51 / 100 | 51 / 100 | 51 / 100 | 51 / 100 | 51 / 100 | 51 / 100 | 51 / 100 | 51 / 100 | | |
| 10 | 29 / 100 | 29 / 10 | 14 / 100 | 14 / 100 | 42 / 100 | 43 / 120 | 46 / 100 | 76 / 100 | 66 / 100 | 53 / 110 | 53 / 110 | 53 / 110 | 53 / 110 | 64 / 100 | 55 / 100 | 50 / 100 | 54 / 120 | 68 / 120 | 68 / 120 | 68 / 120 | 68 / 120 | 68 / 120 | 68 / 120 | |
| 11 | 28 / 100 | 15 / 100 | 39 / 100 | 42 / 100 | 39 / 110 | 52 / 110 | 53 / 110 | 39 / 110 | 50 / 110 | 35 / 110 | 38 / 110 | 40 / 110 | 40 / 110 | 40 / 110 | 40 / 110 | 40 / 110 | 40 / 110 | 40 / 110 | 40 / 110 | 40 / 110 | 40 / 110 | 40 / 110 | 40 / 110 | |
| 12 | 29 / 100 | 29 / 100 | 16 / 110 | 27 / 110 | 29 / 100 | 30 / 120 | 37 / 120 | 37 / 120 | 37 / 120 | 37 / 120 | 37 / 120 | 37 / 120 | 37 / 120 | 37 / 120 | 37 / 120 | 37 / 120 | 37 / 120 | 37 / 120 | 37 / 120 | 37 / 120 | 37 / 120 | 37 / 120 | 37 / 120 | |
| 13 | 15 / 100 | 33 / 110 | 50 / 110 | 41 / 110 | 39 / 110 | 74 / 110 | 24 / 20 | 39 / 110 | C | 39 / 110 | 41 / 110 | 41 / 110 | 41 / 110 | 41 / 110 | 41 / 110 | 41 / 110 | 41 / 110 | 41 / 110 | 41 / 110 | 41 / 110 | 41 / 110 | 41 / 110 | 41 / 110 | |
| 14 | 40 / 110 | 33 / 110 | 50 / 110 | 41 / 110 | 39 / 110 | 74 / 110 | 24 / 20 | 39 / 110 | C | 41 / 110 | 41 / 110 | 41 / 110 | 41 / 110 | 41 / 110 | 41 / 110 | 41 / 110 | 41 / 110 | 41 / 110 | 41 / 110 | 41 / 110 | 41 / 110 | 41 / 110 | 41 / 110 | |
| 15 | 27 / 110 | 38 / 100 | 24 / 110 | 45 / 110 | 24 / 110 | 45 / 110 | 37 / 110 | 44 / 110 | 53 / 110 | 44 / 110 | 53 / 110 | 44 / 110 | 53 / 110 | 40 / 110 | 53 / 110 | 53 / 110 | 53 / 110 | 53 / 110 | 53 / 110 | 53 / 110 | 53 / 110 | 53 / 110 | 53 / 110 | |
| 16 | 29 / 100 | 12 / 110 | 16 / 110 | 27 / 110 | 29 / 100 | 30 / 120 | 37 / 120 | 38 / 120 | 40 / 140 | 38 / 110 | 38 / 110 | 38 / 110 | 38 / 110 | 38 / 140 | 38 / 140 | 38 / 140 | 38 / 140 | 38 / 140 | 38 / 140 | 38 / 140 | 38 / 140 | 38 / 140 | 38 / 140 | |
| 17 | 39 / 100 | 12 / 110 | 16 / 110 | 27 / 110 | 29 / 100 | 30 / 120 | 37 / 120 | 38 / 120 | 40 / 140 | 38 / 110 | 38 / 110 | 38 / 110 | 38 / 110 | 38 / 140 | 38 / 140 | 38 / 140 | 38 / 140 | 38 / 140 | 38 / 140 | 38 / 140 | 38 / 140 | 38 / 140 | 38 / 140 | |
| 18 | 28 / 110 | 30 / 110 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | |
| 19 | 24 / 110 | 26 / 110 | 23 / 110 | 44 / 110 | 24 / 110 | 45 / 110 | 44 / 110 | 47 / 110 | 42 / 110 | 42 / 110 | 40 / 110 | 40 / 110 | 40 / 110 | 40 / 110 | 40 / 110 | 40 / 110 | 40 / 110 | 40 / 110 | 40 / 110 | 40 / 110 | 40 / 110 | 40 / 110 | 40 / 110 | |
| 20 | 37 / 110 | 29 / 110 | 26 / 110 | 27 / 110 | 23 / 110 | 38 / 20 | 39 / 110 | 39 / 110 | 37 / 110 | 37 / 110 | 37 / 110 | 37 / 110 | 37 / 110 | 37 / 110 | 37 / 110 | 37 / 110 | 37 / 110 | 37 / 110 | 37 / 110 | 37 / 110 | 37 / 110 | 37 / 110 | 37 / 110 | |
| 21 | 53 / 110 | 23 / 110 | 29 / 110 | 27 / 110 | 27 / 110 | 44 / 110 | 45 / 110 | 47 / 110 | 42 / 110 | 42 / 110 | 50 / 100 | 50 / 100 | 39 / 110 | 40 / 110 | 40 / 110 | 40 / 110 | 40 / 110 | 40 / 110 | 40 / 110 | 40 / 110 | 40 / 110 | 40 / 110 | 40 / 110 | 40 / 110 |
| 22 | 37 / 110 | 30 / 110 | 30 / 110 | 26 / 110 | 27 / 110 | 37 / 110 | 50 / 110 | 45 / 110 | 40 / 110 | 42 / 130 | 41 / 100 | 40 / 100 | 40 / 100 | 40 / 100 | 40 / 100 | 40 / 100 | 40 / 100 | 40 / 100 | 40 / 100 | 40 / 100 | 40 / 100 | 40 / 100 | 40 / 100 | |
| 23 | 30 / 110 | 23 / 110 | 24 / 110 | 28 / 110 | 23 / 110 | 52 / 110 | 52 / 110 | 52 / 110 | 44 / 110 | 38 / 110 | 40 / 110 | 40 / 110 | 40 / 110 | 40 / 110 | 40 / 110 | 40 / 110 | 40 / 110 | 40 / 110 | 40 / 110 | 40 / 110 | 40 / 110 | 40 / 110 | 40 / 110 | |
| 24 | 27 / 110 | 35 / 110 | 31 / 110 | 22 / 100 | 27 / 100 | 27 / 110 | 55 / 110 | 57 / 110 | 66 / 110 | 55 / 110 | 41 / 110 | 41 / 110 | 41 / 110 | 41 / 110 | 41 / 110 | 41 / 110 | 41 / 110 | 41 / 110 | 41 / 110 | 41 / 110 | 41 / 110 | 41 / 110 | 41 / 110 | |
| 25 | 35 / 110 | C | C | 26 / 110 | 36 / 110 | 47 / 110 | 50 / 110 | 52 / 110 | 51 / 110 | 53 / 110 | 53 / 110 | 53 / 110 | 53 / 110 | 53 / 110 | 53 / 110 | 53 / 110 | 53 / 110 | 53 / 110 | 53 / 110 | 53 / 110 | 53 / 110 | 53 / 110 | 53 / 110 | |
| 26 | 28 / 110 | 23 / 110 | 27 / 110 | 33 / 110 | 46 / 100 | 49 / 100 | 38 / 110 | 34 / 20 | 35 / 110 | 41 / 110 | 40 / 120 | 45 / 120 | 38 / 120 | C | 34 / 110 | 43 / 110 | 43 / 110 | 28 / 110 | 28 / 110 | 28 / 110 | 28 / 110 | 28 / 110 | 28 / 110 | 28 / 110 |
| 27 | 23 / 100 | 23 / 100 | 23 / 100 | 23 / 100 | 23 / 100 | 23 / 100 | 23 / 100 | 23 / 100 | 23 / 100 | 23 / 100 | 38 / 100 | 42 / 120 | 39 / 110 | 40 / 120 | 38 / 110 | 38 / 110 | 38 / 110 | 35 / 110 | 35 / 110 | 35 / 110 | 35 / 110 | 35 / 110 | 35 / 110 | |
| 28 | 26 / 110 | 26 / 110 | 24 / 110 | 24 / 110 | 36 / 100 | 23 / 120 | 38 / 110 | 50 / 110 | 41 / 110 | 38 / 110 | 52 / 120 | 52 / 120 | 50 / 120 | 50 / 120 | 50 / 120 | 50 / 120 | 50 / 120 | 50 / 120 | 50 / 120 | 50 / 120 | 50 / 120 | 50 / 120 | 50 / 120 | |
| 29 | 32 / 110 | 26 / 110 | 30 / 100 | 37 / 100 | 23 / 100 | 29 / 100 | 38 / 130 | 51 / 110 | 40 / 110 | 50 / 110 | 39 / 110 | 39 / 110 | 39 / 110 | 39 / 110 | 39 / 110 | 39 / 110 | 39 / 110 | 38 / 120 | 38 / 120 | 38 / 120 | 38 / 120 | 38 / 120 | 38 / 120 | |
| 30 | 35 / 110 | 43 / 100 | 27 / 100 | 31 / 110 | 38 / 100 | 29 / 100 | 31 / 110 | 39 / 110 | 39 / 110 | 39 / 110 | 39 / 110 | 39 / 110 | 39 / 110 | 39 / 110 | 39 / 110 | 39 / 110 | 39 / 110 | 39 / 110 | 39 / 110 | 39 / 110 | 39 / 110 | 39 / 110 | 39 / 110 | |
| 31 | 36 / 120 | 23 / 140 | | | | | | | | | | | | | | | | | | | | | | |
| Sum | 29 | 29 | 29 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 30 | 30 | 29 | 29 | 30 | 30 | 30 | 29 | 29 | 29 | 29 | 29 | 29 | 29 |
| Median | 2.6 | 2.6 | 2.4 | 2.4 | 2.7 | 3.8 | 4.0 | 5.0 | 4.2 | 4.0 | 4.0 | 3.8 | 3.9 | 4.0 | 3.9 | 3.8 | 3.8 | 3.4 | 3.0 | 3.1 | 3.0 | 3.1 | 2.8 | |
| Count | 29 | 29 | 29 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 30 | 30 | 29 | 29 | 30 | 30 | 30 | 29 | 29 | 29 | 29 | 29 | 29 | |

Records measured by A.K.B.
 J.L.S.

TABLE 77
IONOSPHERE DATA - 9

Washington, D.C. Ionosphere station

National Bureau Of Standards
(Institution)

Hourly values of F2 - M1500 for
August 1946
(Month)

Records measured by: A.K.B.
J.L.S.

TIME: 75°W MERIDIAN

| Day | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|--------|--------------------|--------------------|--------|--------------------|--------------------|-------|--------------------|--------------------|--------------------|--------------------|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------|--------------------|
| 1 | (1.9) | (1.8) ^J | 1.8 | 1.8 | 1.7F | 1.9 | 1.9 | 1.7 | 1.9 | (1.9) ^J | (2.0) | 1.8 | 1.7 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | (1.8) | (1.8) | (1.8) | (1.8) ^J | |
| 2 | 1.8 | (1.8) ^J | 1.7 | C | C | C | C | C | 1.7 | (1.8) ^J | 1.5 | (1.9) | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | (1.8) | |
| 3 | (1.8) ^J | 1.8 | (1.8) | (2.0) | (1.8) ^J | 2.0 | 2.0 | (1.7) ^H | (1.9) | (1.9) | (1.9) | C | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | (1.7) ^J |
| 4 | (1.9)F | 1.8F | 1.7F | (1.8) ^J | 1.8F | 2.0F | (2.2) | 2.1 | 2.0 | 1.8 | 1.9 | 1.8 | 1.9 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | (1.8) |
| 5 | 1.8 | 1.8 | 1.9 | (2.0) ^J | 1.8 | 2.0 | (2.2) | (2.2) | 1.9 | 1.7 | 1.7 | 1.8 | 1.7 | 1.8 | 1.7 | 1.8 | 1.7 | 1.8 | 1.7 | 1.8 | 1.7 | 1.8 | 1.7 | (1.8) ^J |
| 6 | (1.8) ^J | 1.9 | 1.9F | 1.9F | 1.8F | 1.8F | 1.8F | 1.8F | 1.9 | 1.9 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | (1.8) |
| 7 | 1.7 | 1.6 | 1.8K | 1.8K | 1.7K | 1.6K | 1.7K | 1.7K | 1.9K | 1.9K | 1.9K | 1.9K | 1.9K | 1.9K | 1.9K | 1.9K | 1.9K | 1.9K | 1.9K | 1.9K | 1.9K | 1.9K | 1.9K | 1.8K |
| 8 | (1.8) ^K | 1.6K | 1.8K | 1.6K | 1.9K | (2.1) | (2.0) ^J | (2.0) | 2.1 | 1.8 | 1.9 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| 9 | A | (1.9) ^J | 1.9 | 1.8 | (1.8) | 1.9 | 1.9 | (2.1) ^J | 2.1 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.8 |
| 10 | 1.8 | (1.9) | 1.9 | (1.9) ^J | 1.9 | 2.0 | 2.2 | 2.1 | 1.9 | 1.8 | 2.0 | 1.9 | 2.0 | (2.0) | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| 11 | 1.8 | (1.7) ^J | 1.6 | 1.7 | 1.8K | 1.8K | 1.7K | 1.6K | (1.8) ^K | (1.8) ^J | (1.8) | C | C | C | C | 1.6K | 1.7K | 1.8K |
| 12 | 1.9K | 1.9K | 1.9K | 1.9K | 1.7K | 1.8K | 1.9K | 1.9K | 2.0K | 1.8K | (1.8) ^K | (1.9) | (1.9) | (1.9) | 1.7K | 1.7K | 1.8K | 1.8K | 1.8K | 1.8K | 1.8K | 1.8K | 1.9K | |
| 13 | 1.9K | 1.7K | 1.7K | 1.7K | C | C | C | C | 1.9K | 1.9K | (1.7) | C | C | C | C | 1.6K | |
| 14 | 1.7K | 1.8K | 1.6K | 1.7K | 1.7K | 1.8K | 1.8K | 1.8K | 1.9K | 1.9K | 1.9K | 1.9K | 1.9K | 1.9K | 1.9K | 1.9K | 1.9K | 1.9K | 1.9K | 1.9K | 1.9K | 1.9K | 1.9K | |
| 15 | (1.7) | 1.8 | 1.9 | 1.9 | 1.9 | 1.9 | 2.0 | 1.9 | 2.1 | (2.1) | 1.9 | (1.9) | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 16 | 1.8 | (1.9) | 1.7 | 1.7 | (1.8) ^J | (1.8) | 2.0K | 1.9K | 1.9K | 1.9K | 2.0K | 1.7K | 1.8K | 1.8K |
| 17 | 1.7K | 1.7K | 1.7K | 1.7K | 1.6K | 1.8K | 1.8K | 1.8K | 1.9K | 1.9K | 1.9K | 1.9K | 1.9K | 1.9K | 1.9K | 1.6K | |
| 18 | (1.8) ^J | 1.8F | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | |
| 19 | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | |
| 20 | 1.8 | 1.8 | 1.9 | 1.9 | 1.9 | 2.0 | 2.1 | 2.0 | 2.0 | 2.0 | 2.0 | (2.0) | 1.9 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| 21 | 1.9 | 1.8 | 1.9 | 1.9 | 1.9 | 1.9 | 2.0 | 2.2 | 2.4 | (2.1) ^J | (2.0) | 2.0 | 1.9 | 1.8 | 1.9 | 1.9 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | (1.8) ^J |
| 22 | C | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | (2.1) | C | 2.1 | 2.0 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | C |
| 23 | C | 1.9 | 1.9 | 2.0 | 1.9 | 1.9 | 2.2 | 2.2 | 2.1 | 2.0 | (1.9) ^J | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | (2.0) |
| 24 | (1.9) | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 2.1 | 2.1 | 2.1 | 2.1 | 1.9 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | C |
| 25 | (1.9) | C | C | C | C | C | C | C | (1.8) | (1.9) | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | C |
| 26 | 1.9 | 1.9 | 1.8 | 1.9 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | (2.1) | 2.0 | 2.2 | 2.1 | 2.0 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | C |
| 27 | 1.8 | 1.7 | 1.7 | 1.7 | 1.7 | 1.9 | 2.0 | 2.0 | 2.1 | 2.0 | (2.0) | 2.0 | C | 1.9 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | C |
| 28 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.9 | (1.9) | 2.0 | 2.1 | 1.9 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | C | |
| 29 | (1.9) | 2.0 | 2.0 | 1.9 | 1.9 | 1.9 | 2.0 | 2.0 | 2.0 | 2.1 | (2.1) | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | (1.9) ^J |
| 30 | (1.9) | 1.9 | 2.0 | 1.9 | 1.9 | 1.9 | 1.9 | 2.2 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | (1.7) ^J |
| 31 | 1.6K | 1.5K | (1.6)F | (1.7)E | (1.7)E | 2.1K | 1.9K | 1.9K | (1.8)K | (1.8)K | (1.6)K | (1.6)K | (1.6)K | (1.6)K | (1.6)K | (1.6)K | (1.6)K | (1.6)K | (1.6)K | (1.6)K | (1.6)K | (1.6)K | (1.6)K | |
| Sum | 1.9 | 1.8 | 1.8 | 1.8 | 1.8 | 1.9 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 1.9 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | (1.8) |
| Median | 1.7 | 2.9 | 2.6 | 2.7 | 2.6 | 2.8 | 2.6 | 2.7 | 2.8 | 2.7 | 2.6 | 2.7 | 2.6 | 2.7 | 2.6 | 2.7 | 2.6 | 2.7 | 2.6 | 2.7 | 2.6 | 2.7 | 2.6 | 2.8 |
| Count | 27 | 29 | 26 | 27 | 26 | 28 | 26 | 27 | 28 | 27 | 26 | 27 | 26 | 27 | 26 | 27 | 26 | 27 | 26 | 27 | 26 | 27 | 26 | 28 |

TABLE 78
INOSPHERE DATA- 10

Ionosphere section

Washington, D. C. _____

National Bureau Of Standards

TABLE 79
IONOSPHERE DATA - II
Washington D.C.

National Bureau Of Standards Hourly values of F1-M3000 for August 1946
(Institution) (month) Recorded measured by: A. K. B.
J. L. S.

Table 81

Ionospheric Storminess, August 1946

| Day August | Ionosphere 00-12 GCT | Character* 12-24 GCT | Principal Storms Beginning GCT | End GCT | Geomagnetic Character ** 00-12 GCT | 12-24 GCT |
|---------------|-------------------------|-------------------------|--------------------------------------|------------|---------------------------------------|-----------|
| 1 | 1 | 0 | | | 1 | 1 |
| 2 | 2 | 1 | | | 1 | 1 |
| 3 | 1 | 3 | | | 1 | 1 |
| 4 | 2 | 3 | | | 1 | 1 |
| 5 | 1 | 1 | | | 1 | 1 |
| 6 | 2 | 2 | | | 1 | 2 |
| 7 | 2 | 4 | 0700 | -----// | 2 | 3 |
| 8 | 3 | 1 | ----- | 1100 | 1 | 2 |
| 9 | 2 | 2 | | | 1 | 1 |
| 10 | 1 | 3 | | | 0 | 2 |
| 11 | 2 | 5 | 0900 | ----- | 3 | 3 |
| 12 | 4 | 4 | ----- | ----- | 2 | 2 |
| 13 | 4 | 4 | ----- | ----- | 2 | 1 |
| 14 | 4 | 4 | ----- | ----- | 3 | 3 |
| 15 | 4 | 2 | ----- | 1000 | 3 | 3 |
| 16 | 2 | 4 | 1100 | ----- | 3 | 3 |
| 17 | 3 | 5 | ----- | ----- | 3 | 3 |
| 18 | *** | *** | ----- | 0300 | 1 | 1 |
| 19 | *** | 2 | | | 1 | 1 |
| 20 | 1 | 2 | | | 1 | 1 |
| 21 | 1 | 1 | | | 1 | 0 |
| 22 | 1 | 1 | | | 1 | 0 |
| 23 | *** | 3 | | | 0 | 0 |
| 24 | 1 | 3 | | | 2 | 1 |
| 25 | *** | 3 | | | 2 | 1 |
| 26 | 1 | 0 | | | 1 | 1 |
| 27 | 2 | 0 | | | 1 | 1 |
| 28 | 1 | 0 | | | 1 | 1 |
| 29 | 1 | 3 | | | 0 | 0 |
| 30 | 0 | 1 | | | 0 | 2 |
| 31 | 4 | 5 | 0500 | -----// | 4 | 3 |

*Ionosphere character figure (I-figure) for ionospheric storminess at Washington, D.C., during 12-hour period, on an arbitrary scale of 0 to 9, 9 representing the greatest disturbance.

**Average for 12 hours of American magnetic K-figure, determined by a number of observatories, on an arbitrary scale of 0 to 9, 9 representing the greatest disturbance.

***No readable record. Refer to Table 70 for detailed explanation.

//Dashes indicate continuing storm.

//Storm continued after 2300 August 31.

Table 82

Sudden Ionosphere Disturbances Observed at Washington, D.C.

| Day | GCT | | Location of Transmitters | Relative Intensity at minimum* | Other Phenomena |
|--------|-----------|------|---|---|---------------------------------|
| | Beginning | End | | | |
| August | 2 | 1440 | 1520 | 0.1 | |
| | | | Ohio, D.C., Chile, Eng- land, Mexico, New Bruns- wick | | |
| | | 1802 | 1830 | 0.1 | Terr. mag. pulse** 1802-1825 |
| | | | Ohio, D.C., Chile, Eng- land, Hawaii, Mexico, Ontario | | |
| | | 1840 | 1900 | 0.0 | Terr. mag. pulse** 1840-1900 |
| | | 1301 | 1320 | 0.03 | Terr. mag. pulse** 1300-1320 |
| | | 1514 | 1540 | 0.0 | |
| | | | Ohio, D.C., Chile, Eng- land, Mexico, Ontario | | |
| | | 1419 | 1445 | 0.1 | |
| | | | Ohio, D.C., Chile, Eng- land, Mexico, Ontario | | |
| 8 | 1512 | 1540 | Ohio, D.C., England, Mexico, Ontario | 0.05 | |
| | | | | | |
| 12 | 1402 | 1410 | Ohio, D.C., Chile, Eng- land, Mexico, Ontario | 0.2 | Terr. mag. pulse** 1402-1410 |
| | | | | | |
| 15 | 1528 | 1720 | Ohio, D.C., England, Mexico, Ontario | 0.0 | |
| | | | | | |
| 16 | 2140 | 2200 | Ohio, D.C., Chile, Eng- land, Hawaii, Mexico, Ontario | 0.05 | |
| | | | | | |

*Ratio of received field intensity during SID to average field intensity before and after, for station W8XAL, 6080 kilocycles, 600 kilometers distant.

**As observed on Cheltenham magnetogram of the United States Coast and Geodetic Survey.

Table 83

Sudden Ionospheric Disturbances Reported by Engineer-in-Chief
Cable and Wireless, Ltd.

Table 63 (Continued)

| GCT Beginning End | Receiving Station | Location of Transmitters | Distance End | GCT Beginning End | Receiving Station | Location of Transmitters |
|-------------------------|----------------------|---|-----------------|-------------------------|----------------------|---|
| 1045 1110 | Brentwood, England | Austria, Belgian Congo, Brazil, Bulgaria, Ceylon, Iceland, Greece, France, Palestine, Southern Rhodesia, Spain, Switzerland, Turkey, U.S.S.R., Yugoslavia, Zanzibar | 1,020 | 1115 | Brentwood, England | Belgian Congo, Brazil, Bulgaria, Chile, Greece, India, Iran, Kenya, Madagascar, Palestine, Southern Rhodesia, Spain, Syria, Yugoslavia, Uruguay, Yugoslavia, Zanzibar |
| 0740 0830 | Brentwood, England | Bulgaria, Canary Islands, India, Iraq, East Palestine, Portugal, Spain, Southern Rhodesia, Spain, Syria, Turkey, U.S.S.R., Yugoslavia | 1,215 | Brentwood, England | Brentwood, England | Austria, Belgian Congo, Brazil, Bulgaria, Chile, Greece, India, Iran, Kenya, Madagascar, Palestine, Portugal, Southern Rhodesia, Spain, Syria, Thailand, Venezuela, Yugoslavia, Zanzibar |
| 0750 0930 | Somerton, England | Ceylon, China, India, Soviet Union in Europe | 1,130 | 1520 | Brentwood, England | Brazil, Canary Islands, Chile, French Equatorial Africa, Madagascar, Portugal, Southern Rhodesia, Spain, Thailand, U.S.S.R., Venezuela, Yugoslavia |
| 1240 1310 | Brentwood, England | Austria, East, Holland, Venezuela | 1,430 | 1520 | Somerston, England | Argentina, Barbados, Egypt, Gold Coast, New York |
| 1500 1630 | Brentwood, England | Austria, Brazil, India, India, Iran, Poland, Portugal, Spain, Switzerland, U.S.R., Venezuela | 1,730 | 1800 | Brentwood, England | Brazil, Canary Islands, Chile, Colombia, Madagascar, Portugal, Spain, Uruguay, Venezuela |
| 1510 1630 | Somerton, England | Australia, Canada, Chile, India, Japan, Korea, Portugal, Spain, Yugoslavia | 2,2 | 1720 | Somerston, England | Argentina, Barbados, Canada, New York |
| 0730 0815 | Brentwood, England | Bulgaria, French Equatorial Africa, Iraq, Egypt, Kenya, Spain, Yugoslavia | 2,7 | 1720 | Somerston, England | Brazil, Chile, Colombia, Greece, Madagascar, Switzer- land, Uruguay, Venezuela |
| 0900 0945 | Brentwood, England | Austria, Bulgaria, Canada, Bulgaria, Greece, Iraq, Egypt, Madagascar, Portugal, Southern Rhodesia, Spain, Sweden, U.S.S.R., Yugoslavia | 2,7 | 1720 | Brentwood, England | Argentina, Barbados, Canada, Egypt, Gold Coast, India, New York, Union of South Africa |
| | | | 2,7 | 1725 | Somerston, England | |

Table 82 (Continued)

Table 82 (Continued).

| Day | GCT Beginning | End | Receiving Station | Location of Transmitters | Day | GCT Beginning | End | Receiving Station | Location of Transmitter |
|----------|------------------|------|----------------------|---|--|---|------|----------------------|----------------------------|
| | | | | | August | 3 | 1035 | 1115 | |
| July 25 | 0945 | 0945 | Brentwood, England | Belgian Congo, Kenya, Southern Rhodesia | Austria, Belgian Congo, Brazil, Chile, Spain, U.S.S.R. | Argentina, China, New York | 1035 | 1115 | Brentwood, England |
| 25 | 1510 | 1600 | Brentwood, England | Austria, Brazil, Chile, Spain, U.S.S.R. | Austria, Bulgaria, Canary Islands, Chile, Colombia, Greece, India, Iran, Palestine, Southern Rhodesia, Spain, Switzerland, Syria, Thailand, Turkey, Uruguay, U.S.S.R., Venezuela, Yugoslavia | Argentina, Australia, Barbados, Canada, Ceylon, China, Egypt, Gold Coast, India, Japan, New York, Union of South Africa | 1036 | 1115 | Somerton, England |
| 25 | 1510 | 1530 | Somerton, England | Austria, Belgium Congo, Brazil, Bulgaria, Canary Islands, Chile, Colombia, Greece, India, Iran, Palestine, Southern Rhodesia, Spain, Switzerland, Syria, Thailand, Turkey, Uruguay, U.S.S.R., Venezuela, Yugoslavia | Argentina, Australia, Barbados, Canada, Ceylon, China, Egypt, Gold Coast, India, Japan, New York, Union of South Africa | 1300 | 1400 | Brentwood, England | |
| 25 | 1610 | ---- | Brentwood, England | Austria, Belgium Congo, Brazil, Bulgaria, Canary Islands, Chile, Colombia, Greece, India, Iran, Palestine, Southern Rhodesia, Spain, Switzerland, Syria, Thailand, Turkey, Uruguay, U.S.S.R., Venezuela, Yugoslavia | Argentina, Australia, Barbados, Canada, Ceylon, China, Egypt, Gold Coast, India, Japan, New York, Union of South Africa | 1306 | 1440 | Somerton, England | |
| 25 | 1615 | ---- | Somerton, England | Austria, Belgium Congo, Brazil, Bulgaria, Canary Islands, Chile, Colombia, Greece, India, Iran, Palestine, Southern Rhodesia, Spain, Switzerland, Syria, Thailand, Turkey, Uruguay, U.S.S.R., Venezuela, Yugoslavia | Argentina, Australia, Barbados, Canada, Ceylon, China, Egypt, Gold Coast, India, Japan, New York, Union of South Africa | 1515 | 1545 | Brentwood, England | |
| 26 | 0745 | 0810 | Brentwood, England | Austria, Belgium Congo, Brazil, Bulgaria, Canary Islands, Chile, Colombia, Greece, India, Iran, Palestine, Southern Rhodesia, Spain, Switzerland, Syria, Thailand, Turkey, Uruguay, U.S.S.R., Venezuela | Argentina, Australia, Barbados, Canada, Ceylon, China, Egypt, Gold Coast, India, Japan, New York, Union of South Africa | 1520 | 1635 | Somerton, England | |
| 27 | 1410 | 1545 | Brentwood, England | Austria, Belgium Congo, Brazil, Bulgaria, Canary Islands, Chile, Colombia, Greece, India, Iran, Palestine, Southern Rhodesia, Spain, Switzerland, Syria, Thailand, Turkey, Uruguay, U.S.S.R., Venezuela | Argentina, Australia, Barbados, Canada, Ceylon, China, Egypt, Gold Coast, India, Japan, New York, Union of South Africa | 1430 | 1600 | Brentwood, England | |
| 30 | 1605 | 1630 | Brentwood, England | Austria, Belgium Congo, Brazil, Bulgaria, Canary Islands, Chile, Colombia, Greece, India, Iran, Palestine, Southern Rhodesia, Spain, Switzerland, Syria, Thailand, Turkey, Uruguay, U.S.S.R., Venezuela | Argentina, Australia, Barbados, Canada, Ceylon, China, Egypt, Gold Coast, India, Japan, New York, Union of South Africa | 12 | 1355 | 1425 | Brentwood, England |
| August 2 | 1648 | 1525 | Brentwood, England | Austria, Belgium Congo, Brazil, Bulgaria, Canary Islands, Chile, Colombia, Greece, India, Iran, Palestine, Southern Rhodesia, Spain, Switzerland, Syria, Thailand, Turkey, Uruguay, U.S.S.R., Venezuela, Yugoslavia | Argentina, Australia, Barbados, Canada, Ceylon, China, Egypt, Gold Coast, India, Japan, New York, Union of South Africa | 1035 | 1115 | Brentwood, England | |
| 3 | 0820 | 0845 | Brentwood, England | Austria, Belgium Congo, Brazil, Bulgaria, Canary Islands, Chile, Colombia, Greece, India, Iran, Palestine, Southern Rhodesia, Spain, Switzerland, Syria, Thailand, Turkey, Uruguay, U.S.S.R., Venezuela, Yugoslavia | Argentina, Australia, Barbados, Canada, Ceylon, China, Egypt, Gold Coast, India, Japan, New York, Union of South Africa | 1035 | 1115 | Brentwood, England | |

Note - Observers are invited to send to the CRPL information on times of beginning and end of sudden ionosphere disturbances, for publication as above. Address letters to Central Radio Propagation Laboratory, National Bureau of Standards, Washington 25, D. C.

Table 54

Provisional Radio Propagation Quality FiguresJuly 1946Compared with CEPL Warnings and CEPL Probable Disturbed Period Forecasts

| Day | North Atlantic | | | | North Pacific | | | | Geo- Figure Forecast | |
|-------|-------------------|------------------|---|---|-------------------|------------------|---|---|----------------------------|---|
| | Quality Figure | CEPL* Warning | CEPL** Probable Disturbed Period | Geo- mag- netic Index K_A | Quality Figure | CEPL* Warning | CEPL** Probable Disturbed Period | Geo- mag- netic Index K_A | | |
| 01-12 | G | G | G | G | G | G | G | G | 01-12 | |
| 13-24 | G | G | G | G | G | G | G | G | 13-24 | |
| 01-10 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 01-10 | |
| 11-14 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 11-14 | |
| 01-17 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 01-17 | |
| 18-21 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 18-21 | |
| 22-25 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 22-25 | |
| 26-29 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 26-29 | |
| 30-31 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 30-31 | |
| 1 | 6 | 6 | X | 0 | 1 | 6 | 7 | X | 0 | 1 |
| 2 | 5 | 5 | | 2 | 2 | 5 | 6 | | 2 | 2 |
| 3 | (4) | 5 | | 3 | 2 | 6 | (4) | | 3 | 2 |
| 4 | 5 | 6 | | 1 | 1 | 6 | 6 | | 1 | 1 |
| 5 | 7 | 7 | | 1 | 1 | 7 | 8 | | 1 | 1 |
| 6 | 7 | 6 | | 1 | 1 | 6 | 5 | | 1 | 1 |
| 7 | 5 | 6 | | 4 | 3 | 6 | 7 | | 4 | 3 |
| 8 | (4) | 5 | | 2 | 2 | 7 | 8 | X | 2 | 2 |
| 9 | 5 | 5 | | 3 | 2 | 6 | 7 | X | 3 | 2 |
| 10 | 5 | 6 | | 2 | 2 | 6 | 7 | X | 2 | 2 |
| 11 | 5 | 6 | | 2 | 2 | 5 | 7 | | 2 | 2 |
| 12 | 6 | 6 | | 1 | 1 | 5 | 5 | | 1 | 1 |
| 13 | 6 | 6 | | 1 | 1 | 6 | - | | 1 | 1 |
| 14 | 5 | 6 | | 2 | 3 | 5 | 6 | | 2 | 3 |
| 15 | 5 | 6 | X | 3 | 1 | 6 | - | X | 3 | 1 |
| 16 | 5 | 6 | | 1 | 3 | (4) | 5 | | 1 | 3 |
| 17 | 5 | 6 | | 3 | 2 | 5 | 7 | | 3 | 2 |
| 18 | 6 | 5 | | 2 | 4 | 5 | 8 | | 2 | 4 |
| 19 | (4) | (4) | X | 4 | 2 | (3) | 5 | X | 4 | 2 |
| 20 | 5 | 5 | | X | 1 | 1 | (4) | X | 1 | 1 |
| 21 | 5 | 5 | | | 2 | 2 | (4) | 6 | 2 | 2 |
| 22 | 6 | 5 | | | 2 | 2 | (3) | (4) | 2 | 2 |
| 23 | 5 | 5 | | | 3 | 3 | (4) | (4) | 3 | 3 |
| 24 | 6 | 5 | | | 1 | 1 | 6 | 7 | 1 | 1 |
| 25 | 5 | (3) | | | 2 | 3 | (4) | (4) | 2 | 3 |
| 26 | (3) | (1) | X | X | 3 | 5 | (3) | (4) | 3 | 5 |
| 27 | (2) | (2) | X | X | 7 | 3 | (4) | (4) | 7 | 3 |
| 28 | (4) | (3) | X | X | 2 | 3 | (4) | 7 | 2 | 3 |
| 29 | (4) | (4) | X | X | 4 | 4 | (4) | 8 | 4 | 4 |
| 30 | (3) | (4) | X | X | 4 | 3 | (3) | 6 | 4 | 3 |
| 31 | 5 | 5 | X | X | 2 | 1 | 5 | 8 | 2 | 1 |

Score:

| | | | | | | |
|-----|----|----|--|--|----|----|
| H | 7 | 6 | | | 7 | 7 |
| M | 2 | 3 | | | 6 | 6 |
| G | 15 | 13 | | | 11 | 10 |
| (S) | 5 | 7 | | | 2 | 3 |
| S | 2 | 2 | | | 5 | 5 |

*Broadcast on WWV, Washington, D. C. Times of warnings recorded to nearest half-day as broadcast.

**In addition to dates marked X, the following were designated as probable disturbed days on forecasts more than eight days in advance of said dates: July 4, 14.

Quality Figure Scale:

- 1 = Useless
- 2 = Very poor
- 3 = Poor
- 4 = Poor to fair
- 5 = Fair
- 6 = Fair to good
- 7 = Good
- 8 = Very good
- 9 = Excellent

Symbols

- X Warning given or probable disturbed date.
- H Quality 4 or worse on day or half day of warning.
- M Quality 4 or worse on day or half day of no warning.
- G Quality 5 or better on day of no warning.
- (S) Quality 5 on day of warning.
- S Quality 6 or better on day of warning.
- () Quality 4 or worse (disturbed).

Geomagnetic K_A on the standard scale of 0 to 9, 9 representing the greatest disturbance.

Table 85

Daily Median Values of American Relative Sunspot Numbers*August 1946

| Date | No. | Date | No. |
|------|-----|------|-----|
| 1 | 127 | 16 | 91 |
| 2 | 129 | 17 | 74 |
| 3 | 126 | 18 | 102 |
| 4 | 136 | 19 | 109 |
| 5 | 120 | 20 | 105 |
| 6 | 108 | 21 | 96 |
| 7 | 96 | 22 | 107 |
| 8 | 110 | 23 | 127 |
| 9 | 125 | 24 | 109 |
| 10 | 97 | 25 | 88 |
| 11 | 98 | 26 | 88 |
| 12 | 83 | 27 | 78 |
| 13 | 84 | 28 | 98 |
| 14 | 104 | 29 | 104 |
| 15 | 97 | 30 | 132 |
| | | 31 | 142 |

No. Days 31Mean 106.1

* Median of data from 24 observers.

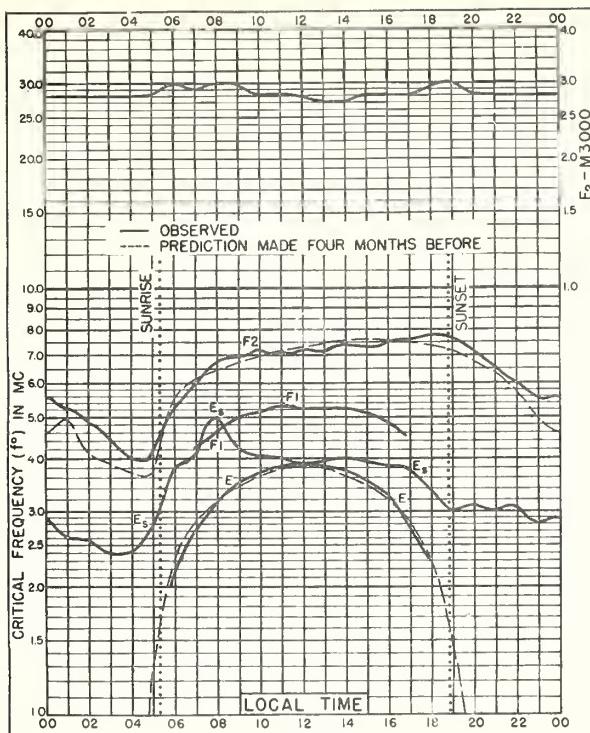


Fig. 1. WASHINGTON, D.C.
39°N, 77.5°W AUGUST 1946

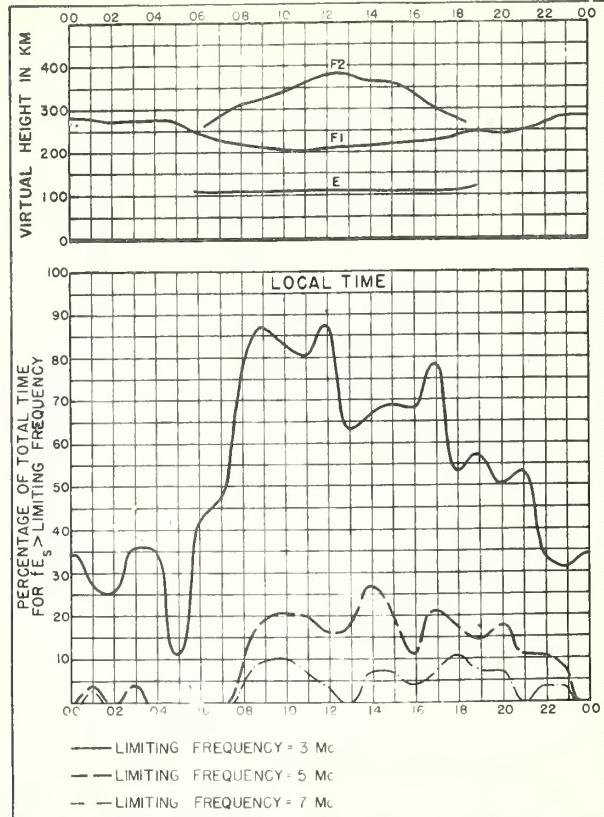


Fig. 2. WASHINGTON, D.C. AUGUST 1946

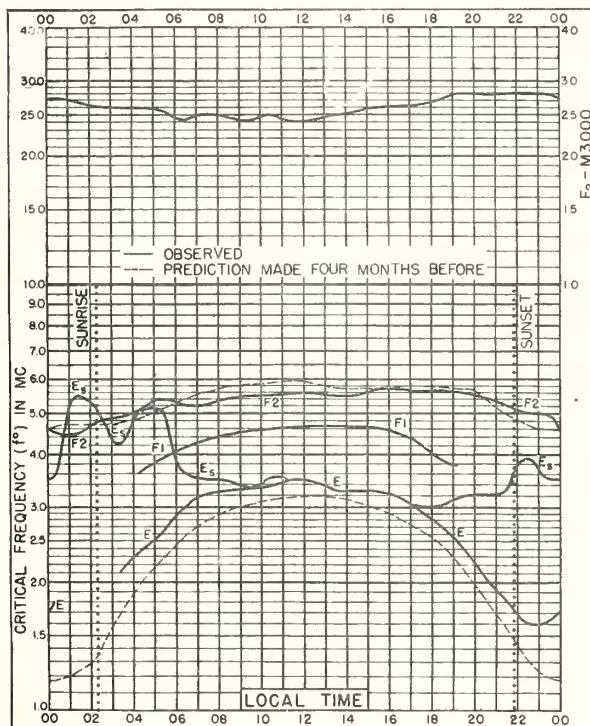


Fig. 3. FAIRBANKS, ALASKA
64.9°N, 147.8°W JULY 1946

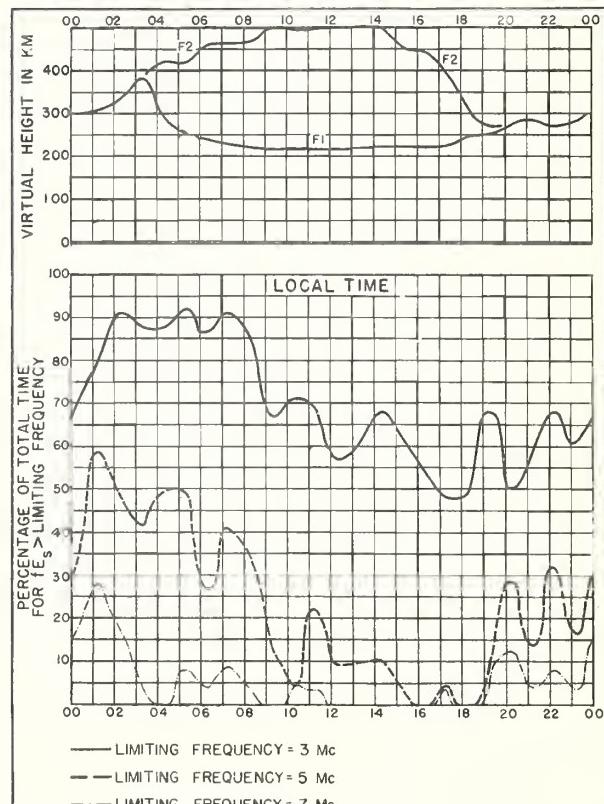


Fig. 4. FAIRBANKS, ALASKA JULY 1946

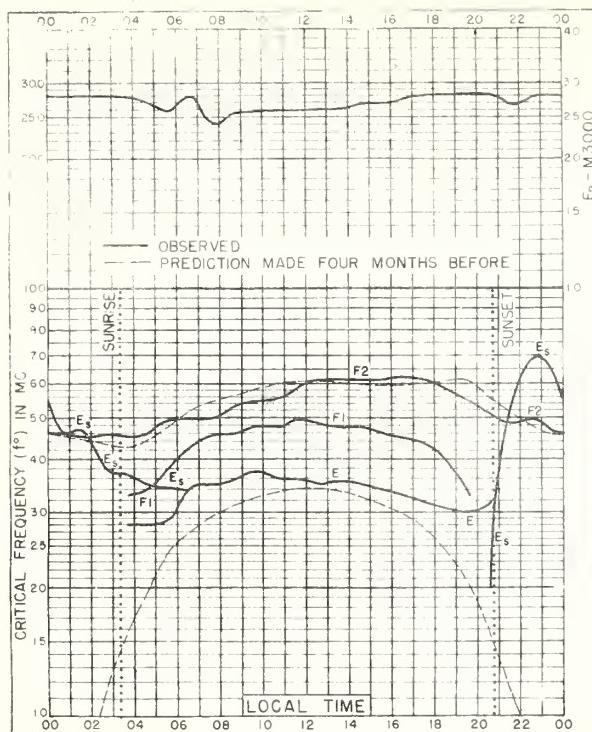


Fig. 5. CHURCHILL, CANADA
58.8°N, 94.2°W JULY 1946

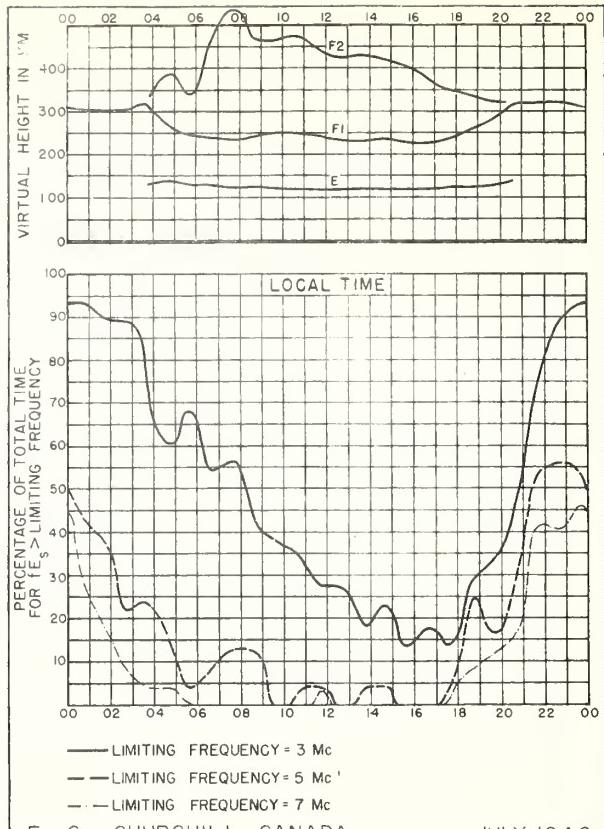


Fig. 6. CHURCHILL, CANADA JULY 1946

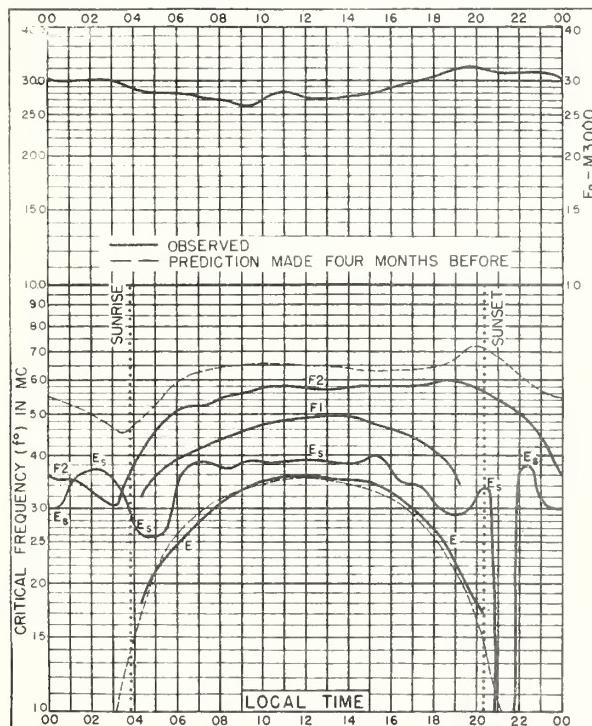


Fig. 7 PRINCE RUPERT, CANADA
54.3°N, 130.3°W JULY 1946

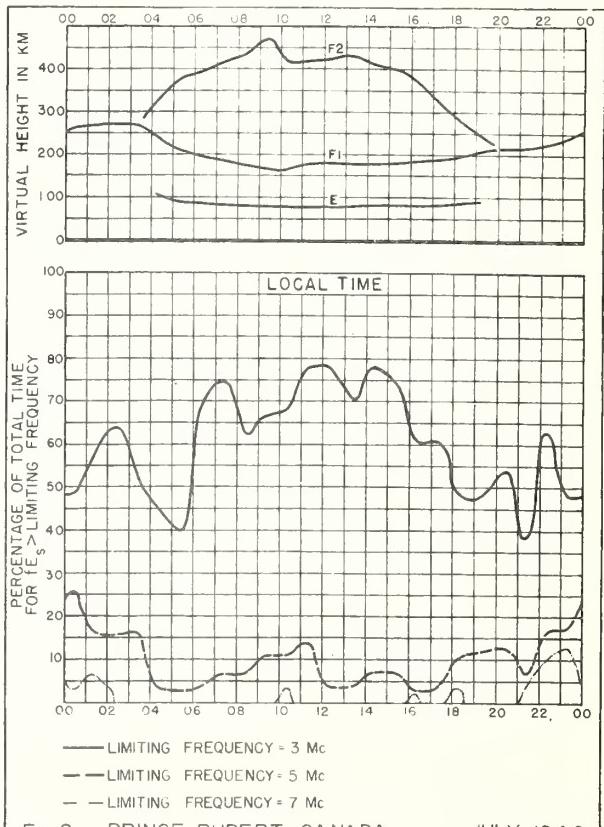
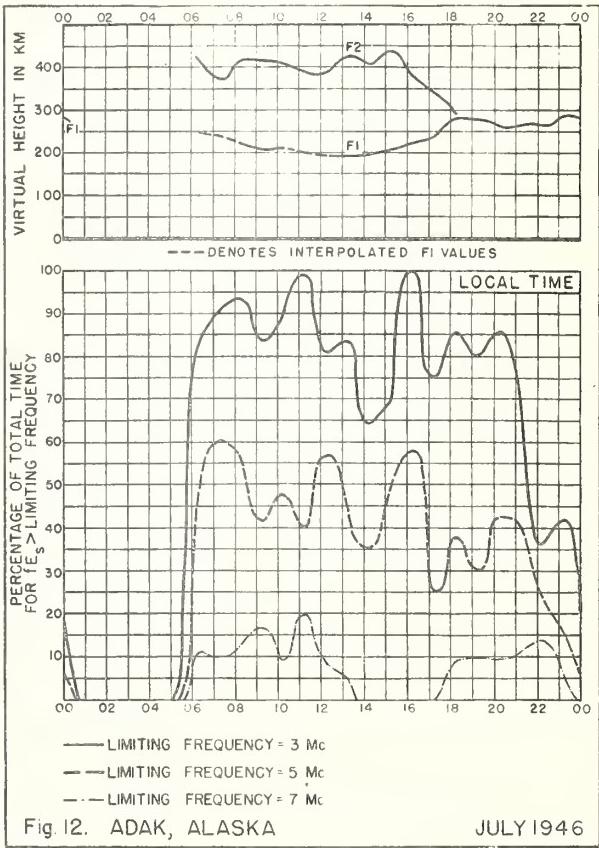
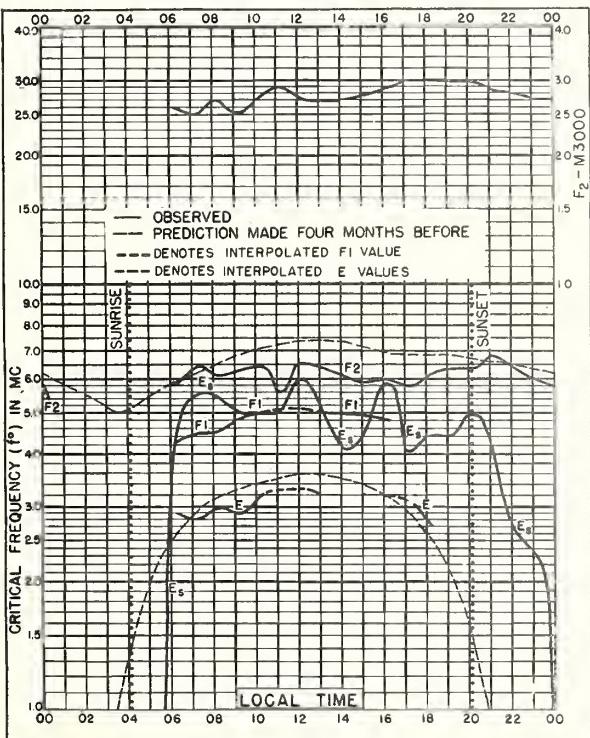
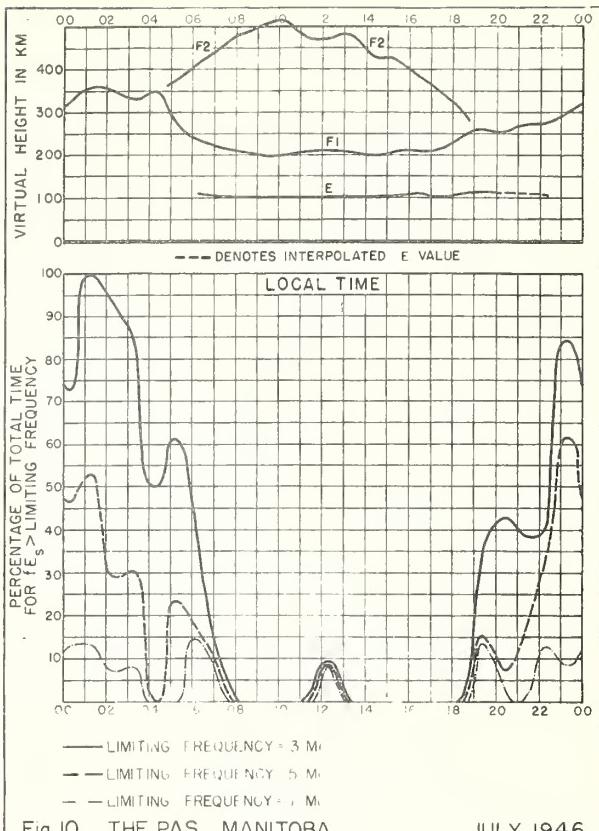
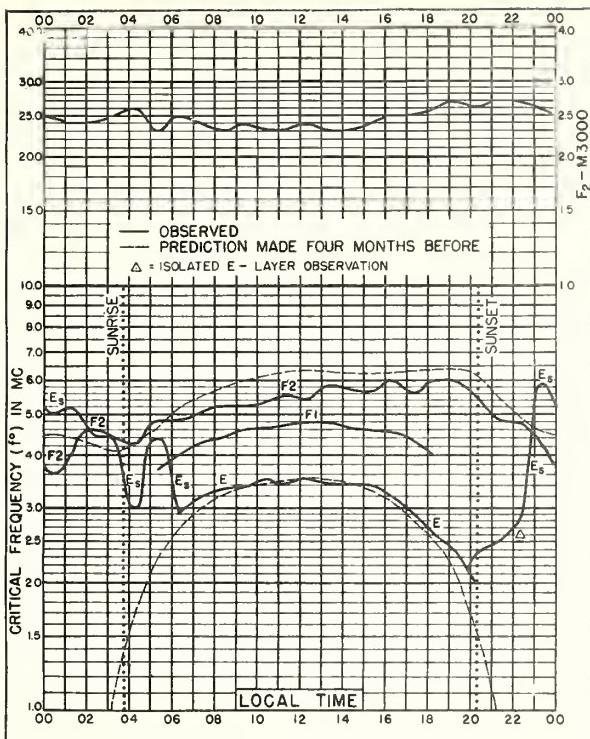


Fig. 8. PRINCE RUPERT, CANADA JULY 1946



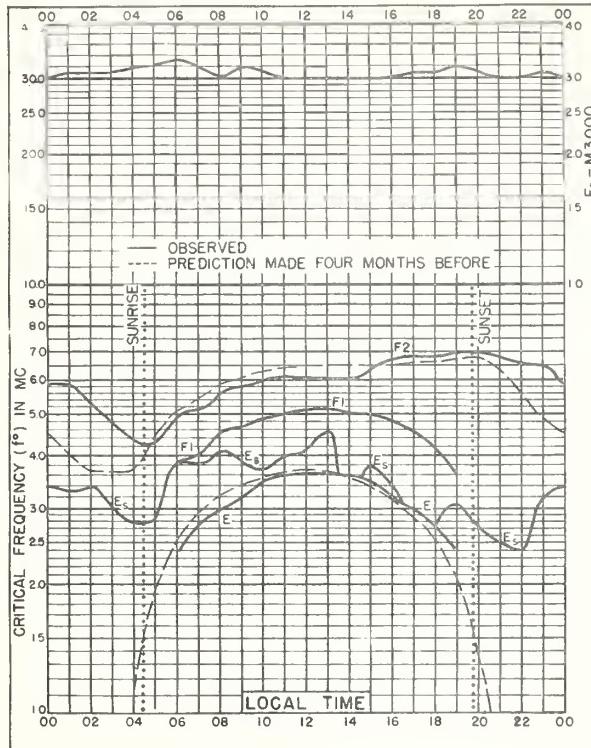


Fig. 13. ST. JOHN'S, NEWFOUNDLAND
47.6°N, 52.7°W JULY 1946

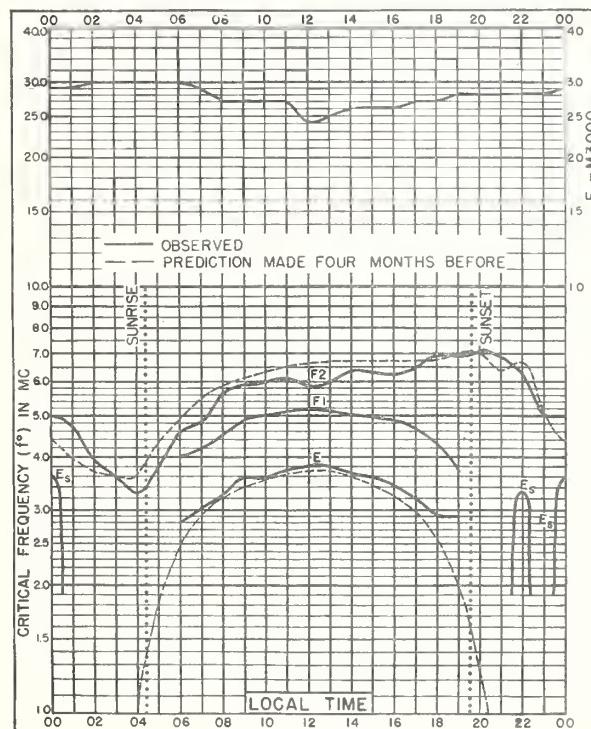
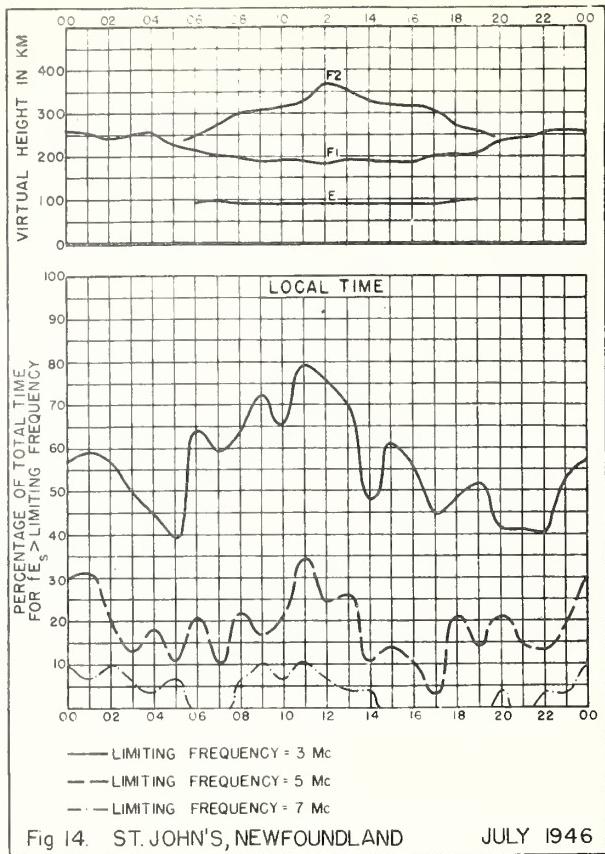
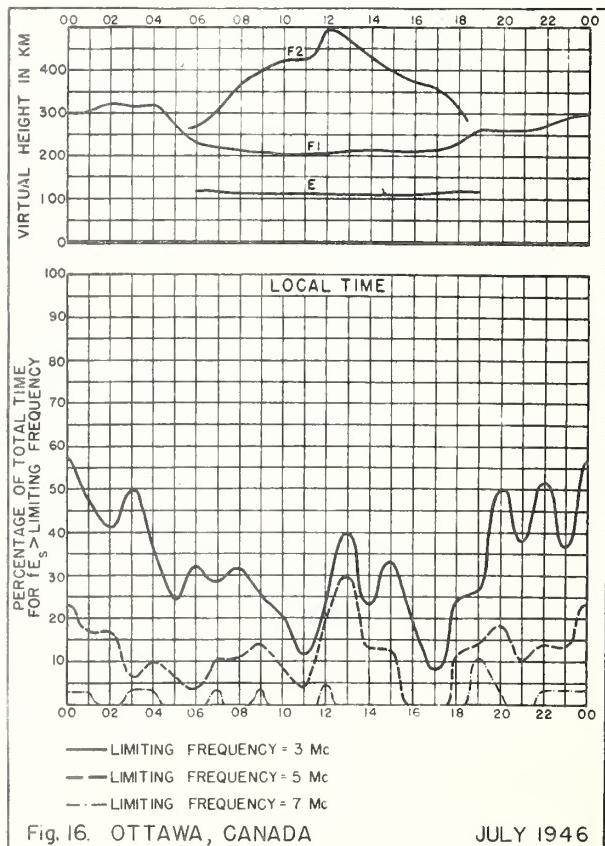


Fig. 15. OTTAWA, CANADA
45.5°N, 75.8°W JULY 1946



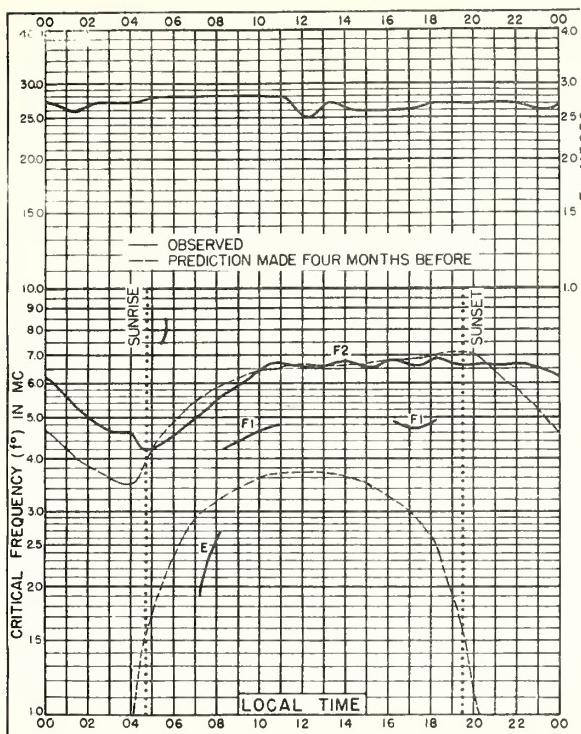


Fig. 17. BOSTON, MASSACHUSETTS
42.4°N, 71.2°W

JULY 1946

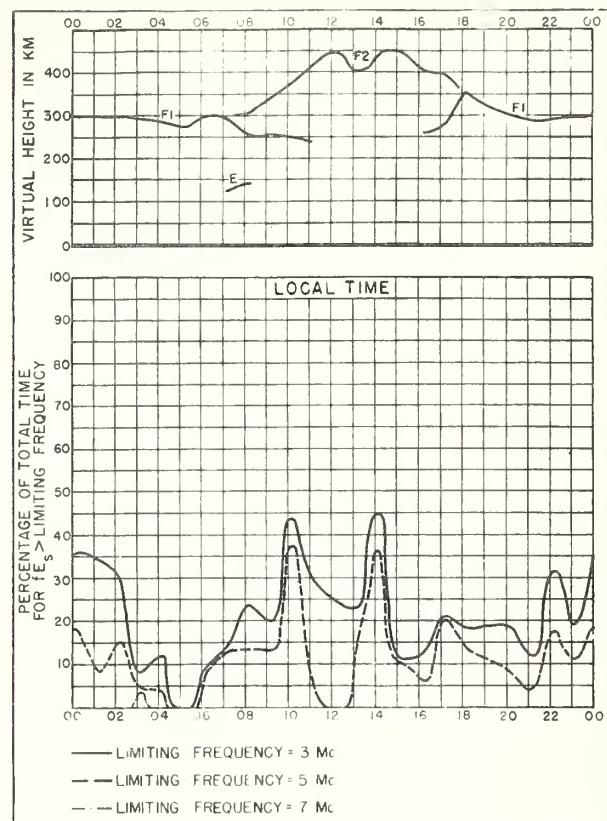


Fig. 18. BOSTON, MASSACHUSETTS JULY 1946

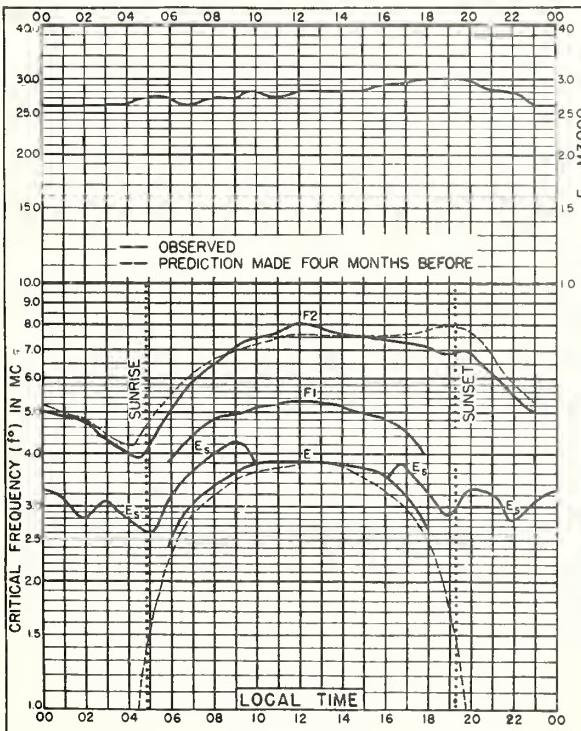


Fig. 19. SAN FRANCISCO, CALIFORNIA
37.4°N, 122.2°W

JULY 1946

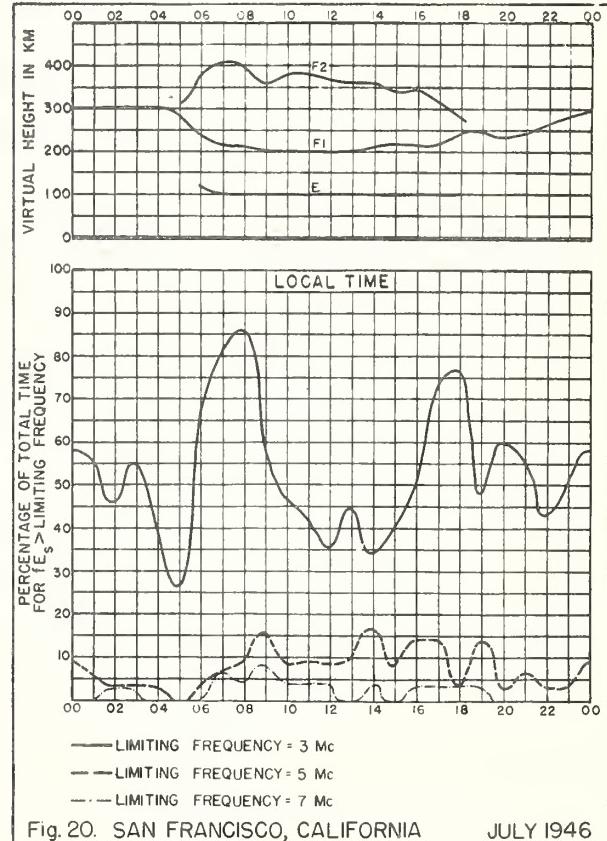


Fig. 20. SAN FRANCISCO, CALIFORNIA JULY 1946

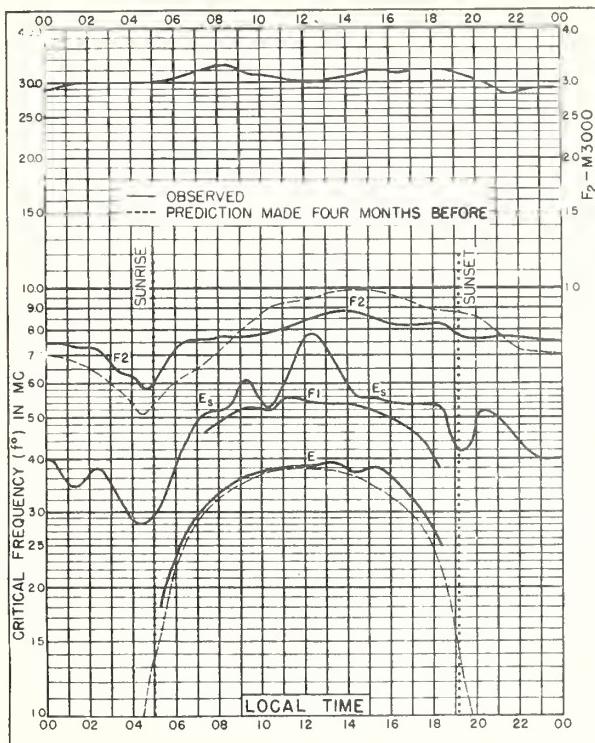


Fig. 21. TOKYO, JAPAN

35.6°N, 139.6°E

JULY 1946

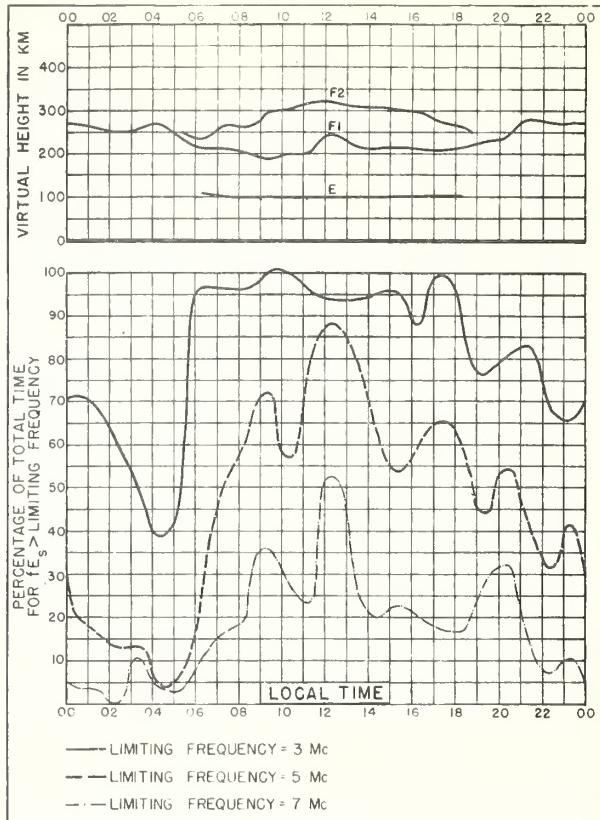


Fig. 22. TOKYO, JAPAN

JULY 1946

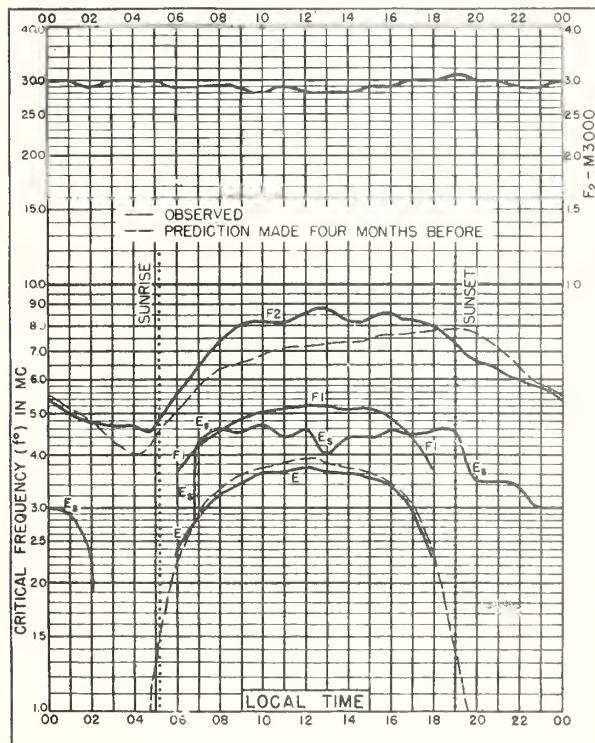


Fig. 23. BATON ROUGE, LOUISIANA

30.5°N, 91.2°W

JULY 1946

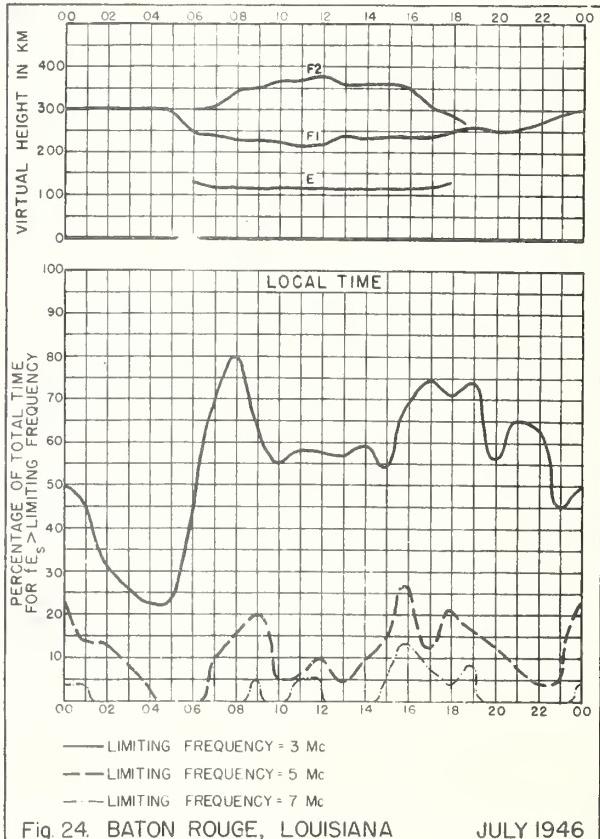


Fig. 24. BATON ROUGE, LOUISIANA

JULY 1946

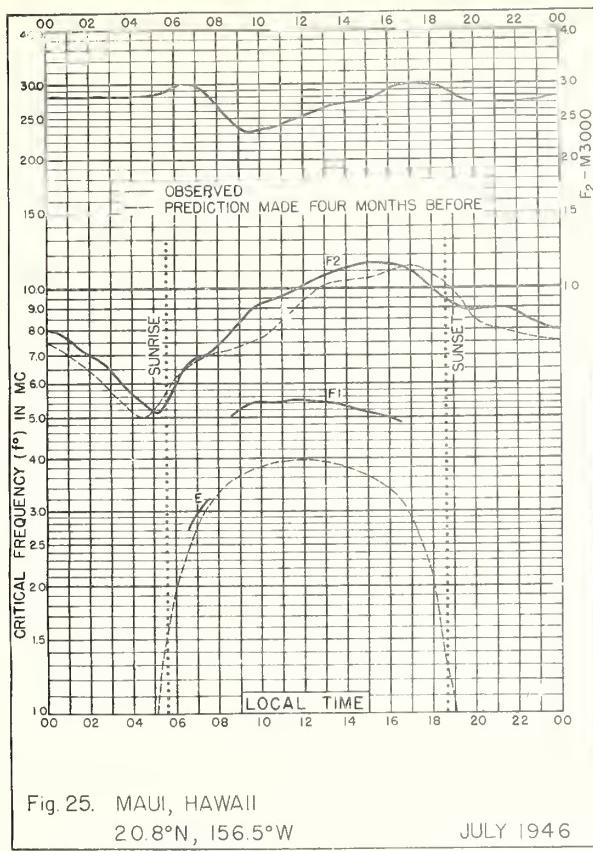


Fig. 25. MAUI, HAWAII
20.8°N, 156.5°W

JULY 1946

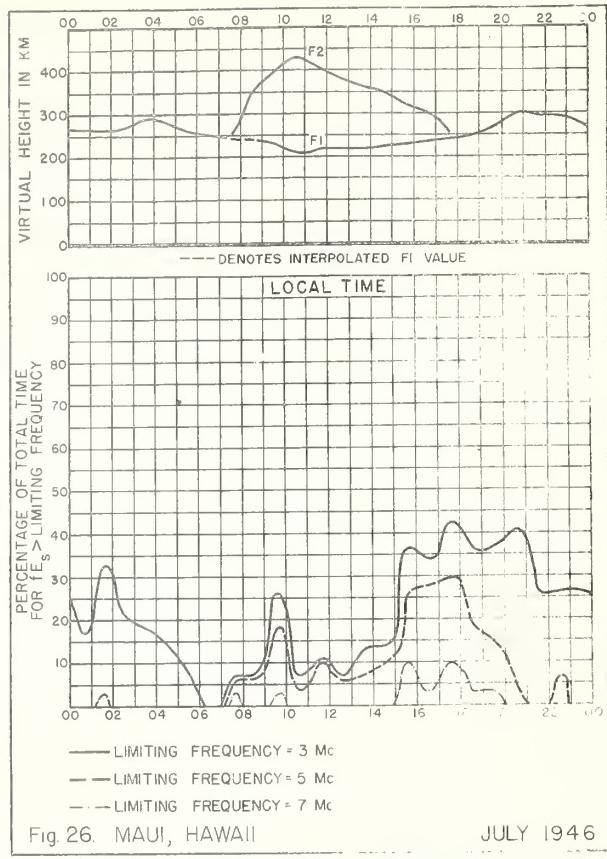


Fig. 26. MAUI, HAWAII

JULY 1946

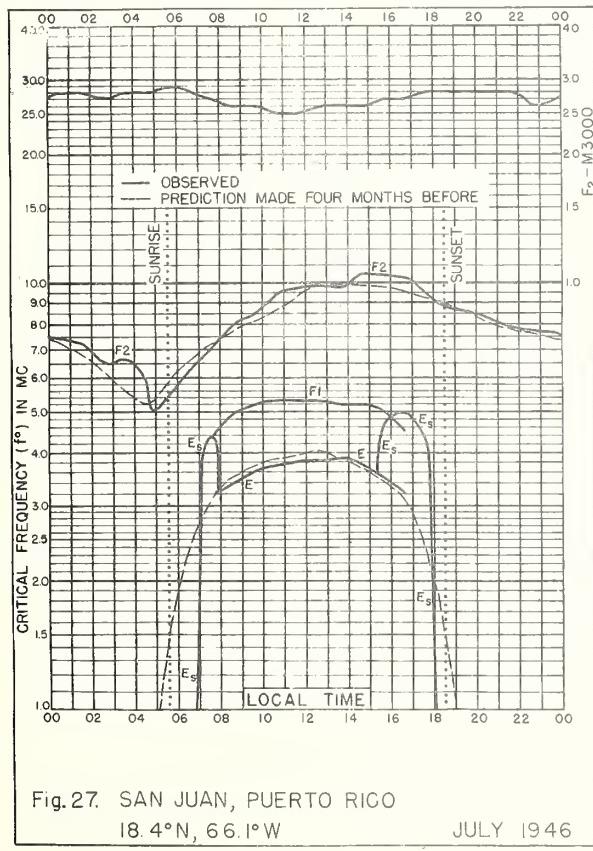


Fig. 27. SAN JUAN, PUERTO RICO
18.4°N, 66.1°W

JULY 1946

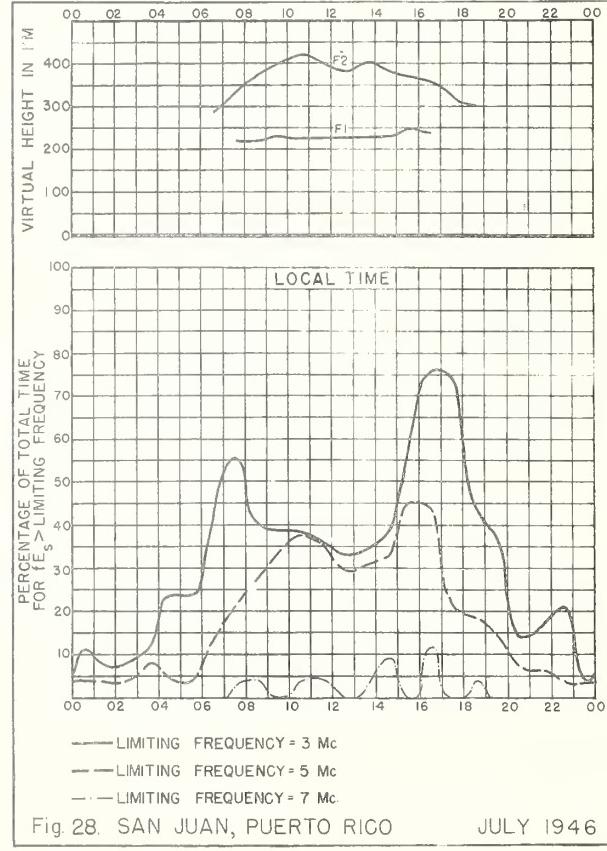


Fig. 28. SAN JUAN, PUERTO RICO

JULY 1946

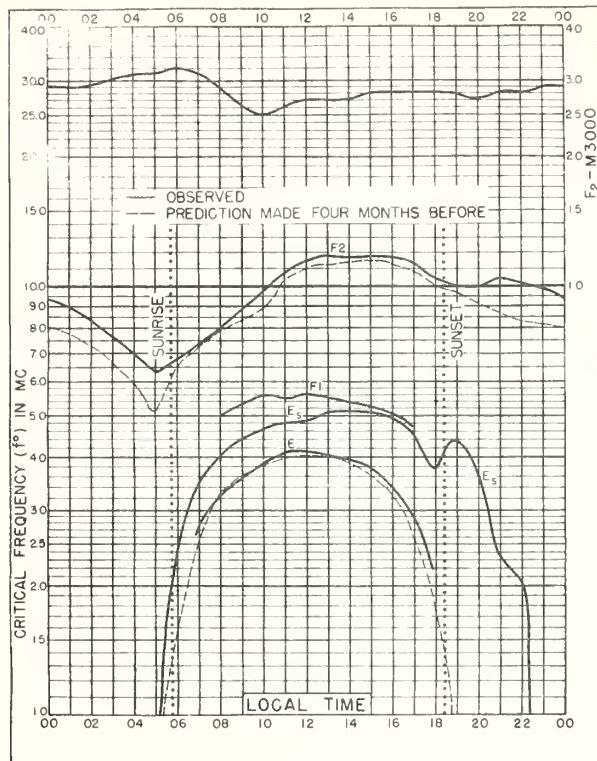


Fig 29. TRINIDAD, BRIT. WEST INDIES
10 $^{\circ}$ N, 61 $^{\circ}$ W JULY 1946

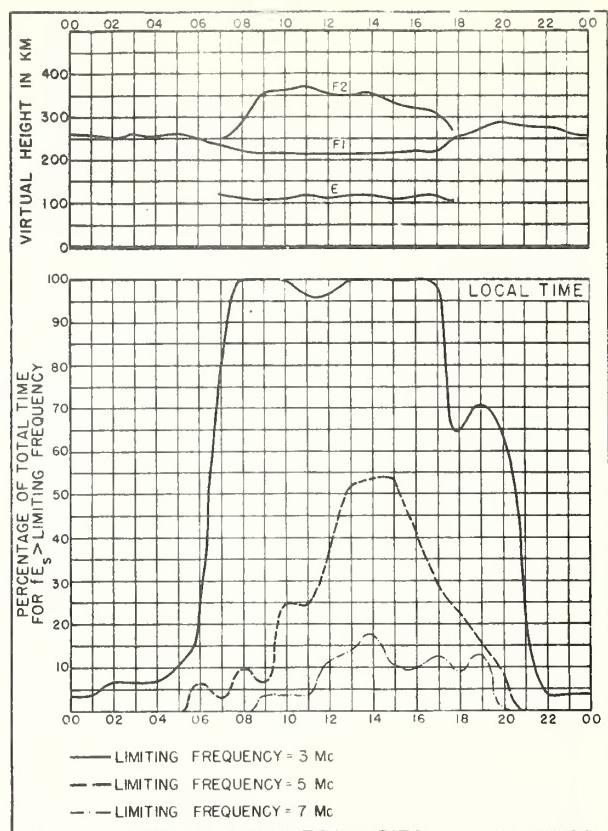


Fig 30. TRINIDAD, BRIT. WEST INDIES JULY 1946

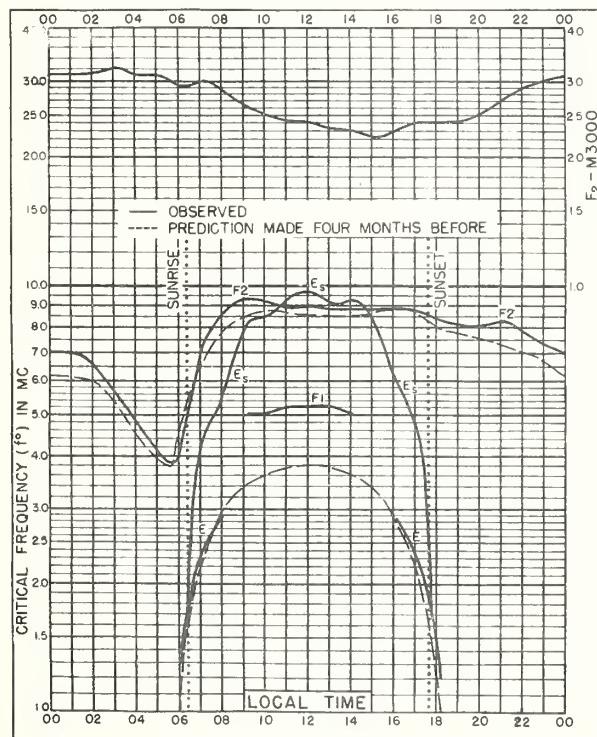


Fig 31. HUANCAYO, PERU
12 $^{\circ}$ S, 75.3 $^{\circ}$ W JULY 1946

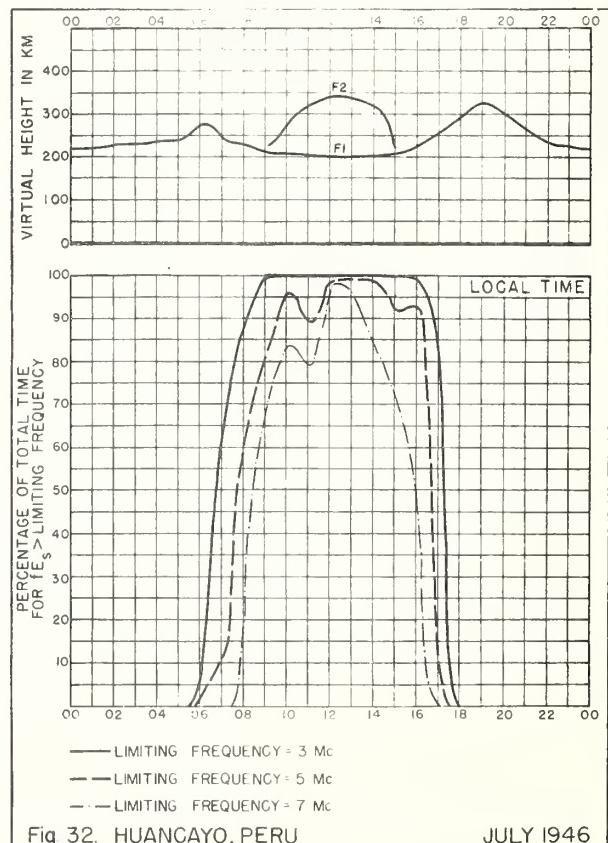


Fig 32. HUANCAYO, PERU JULY 1946

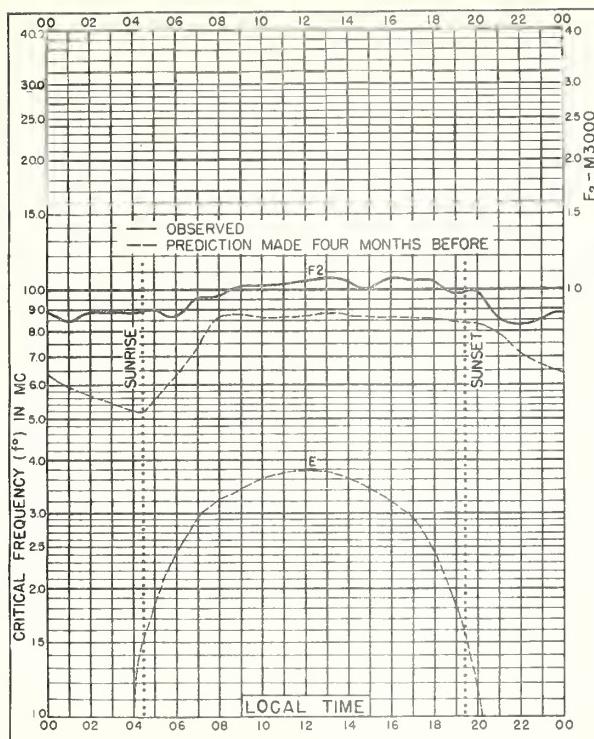


Fig. 33. PEIPING, CHINA
39°9'N, 116.4°E JUNE 1946

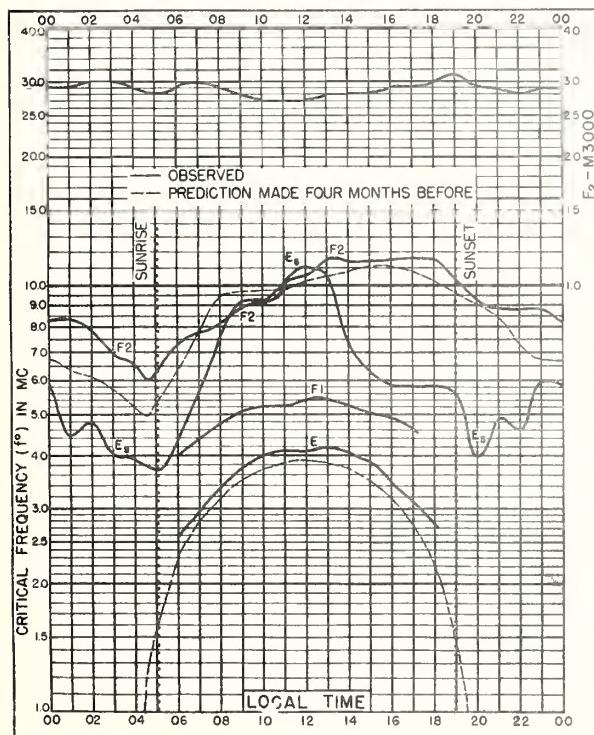


Fig. 34. CHUNGKING, CHINA
29.4°N, 106.8°E JUNE 1946

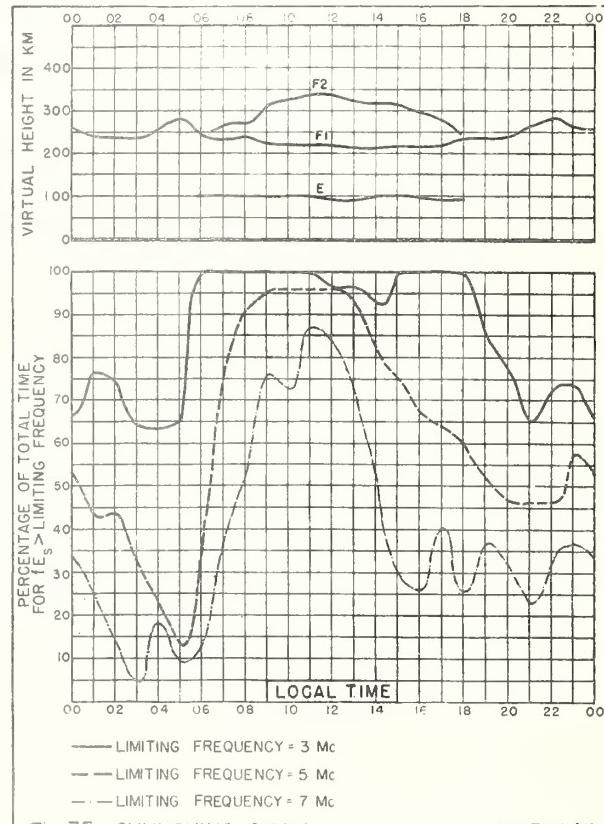
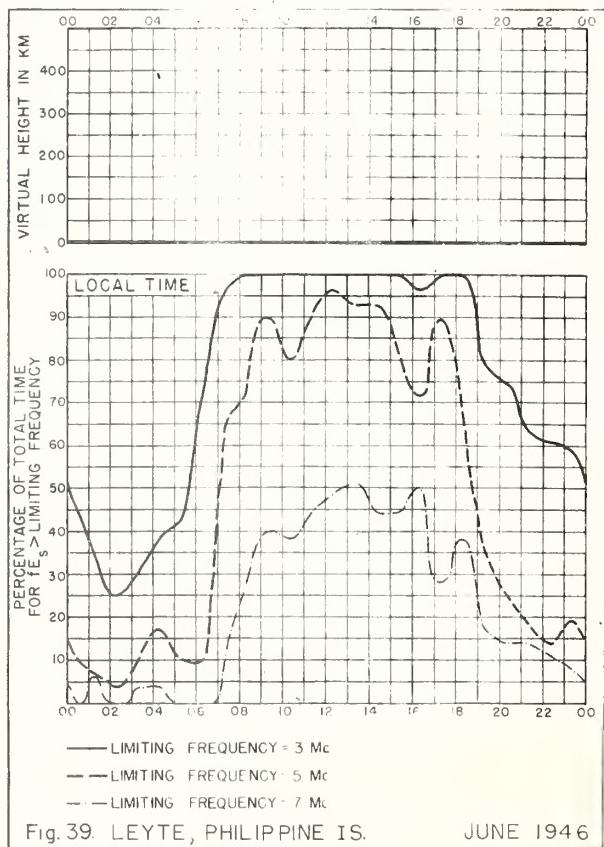
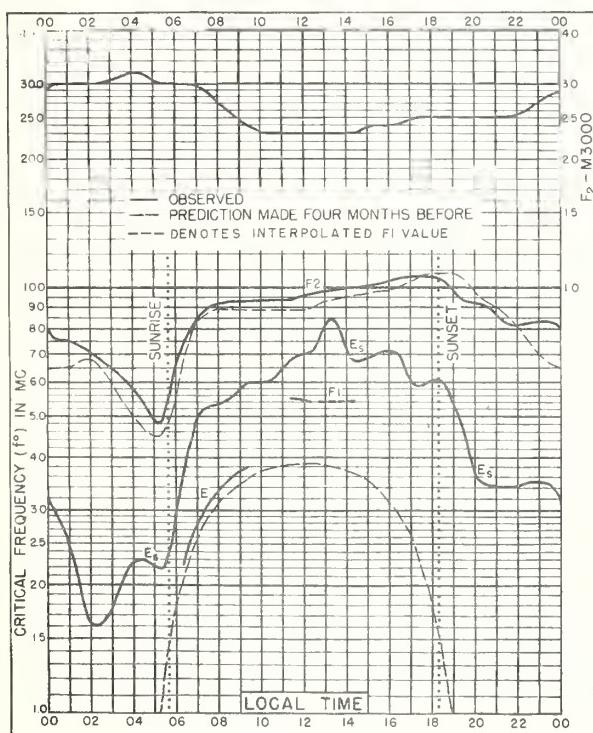
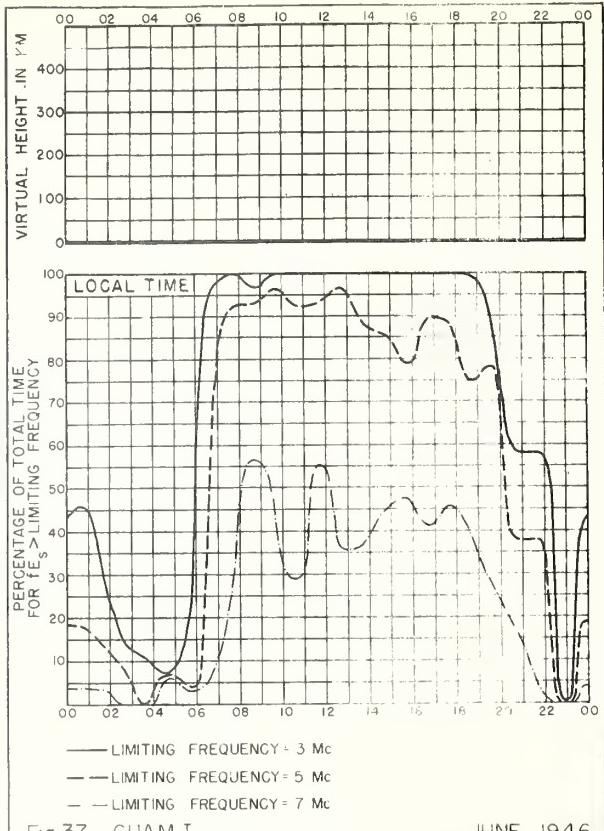
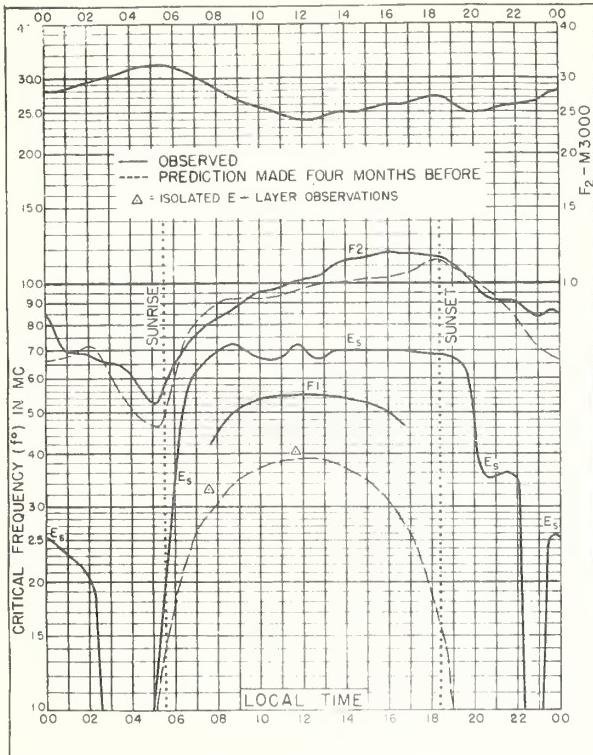


Fig. 35. CHUNGKING, CHINA JUNE 1946



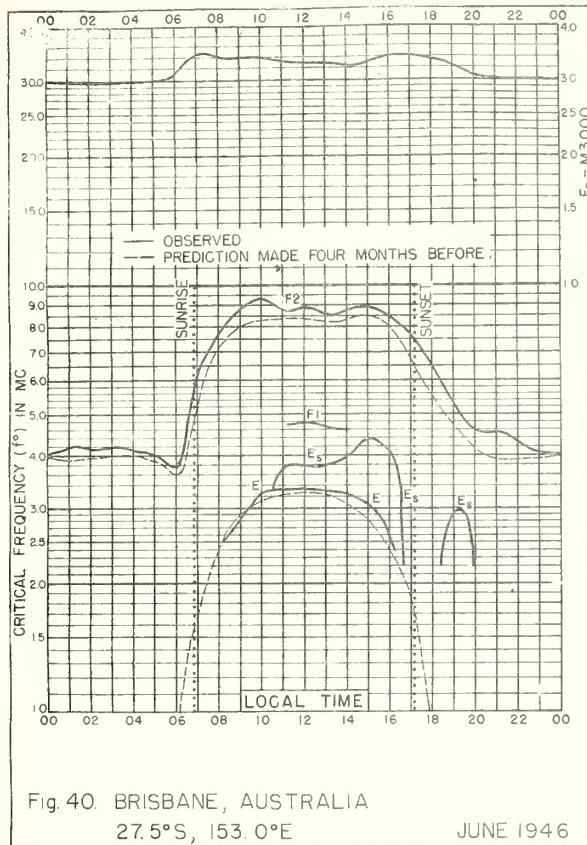


Fig. 40. BRISBANE, AUSTRALIA
27.5°S, 153.0°E JUNE 1946

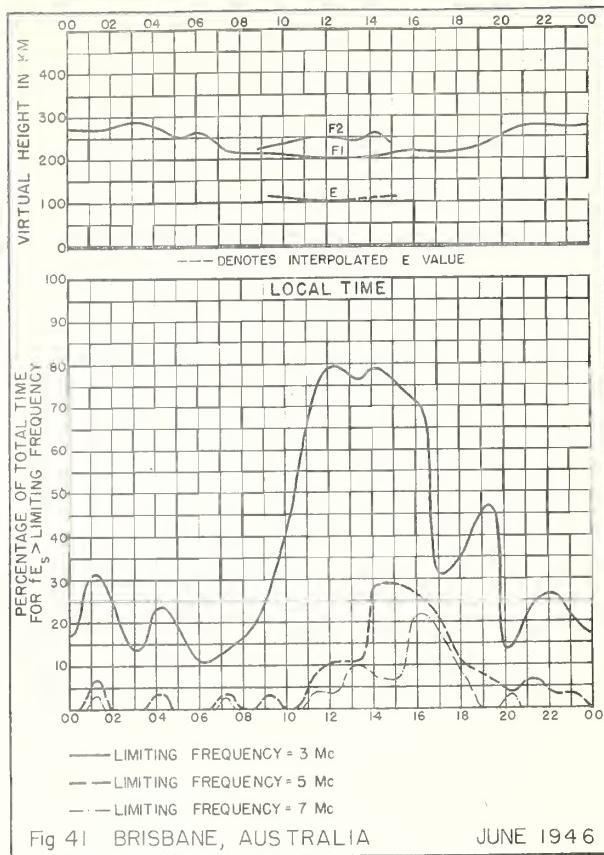


Fig. 41. BRISBANE, AUSTRALIA JUNE 1946

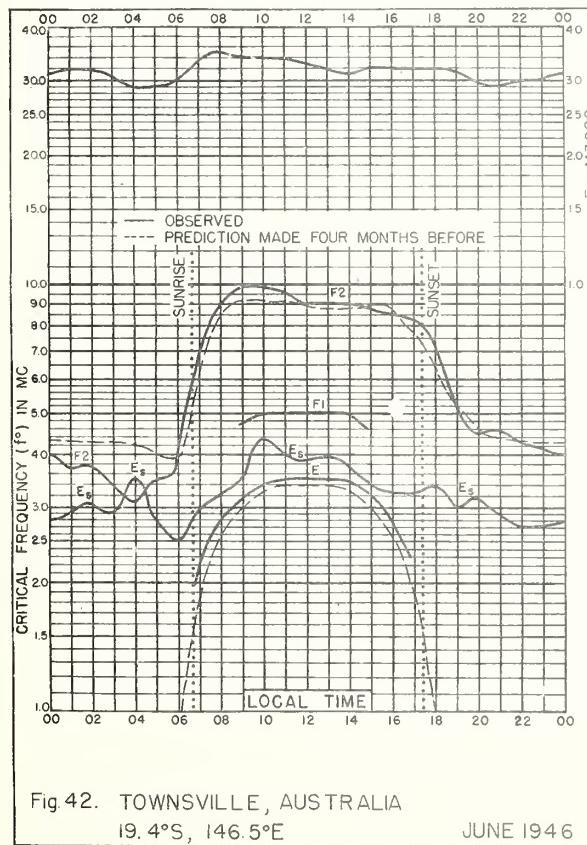


Fig. 42. TOWNSVILLE, AUSTRALIA
19.4°S, 146.5°E JUNE 1946

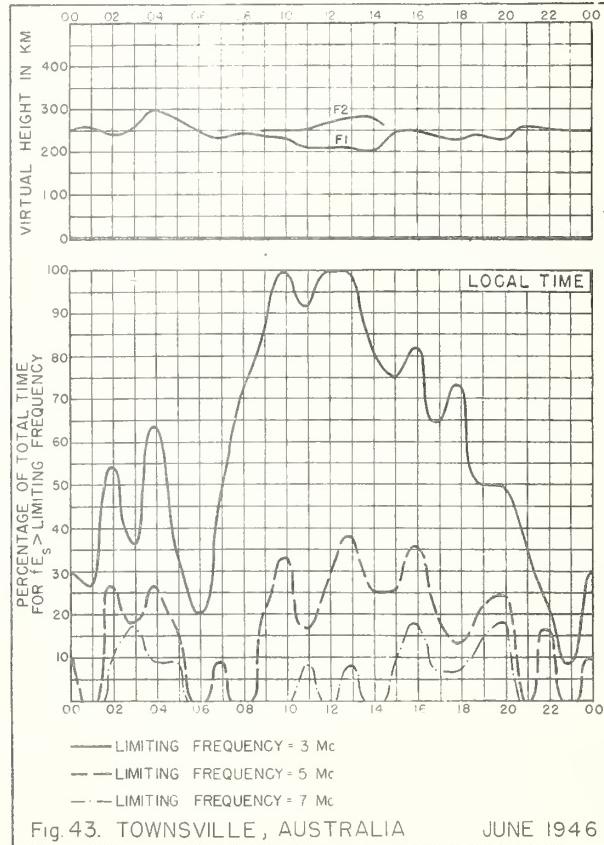


Fig. 43. TOWNSVILLE, AUSTRALIA JUNE 1946

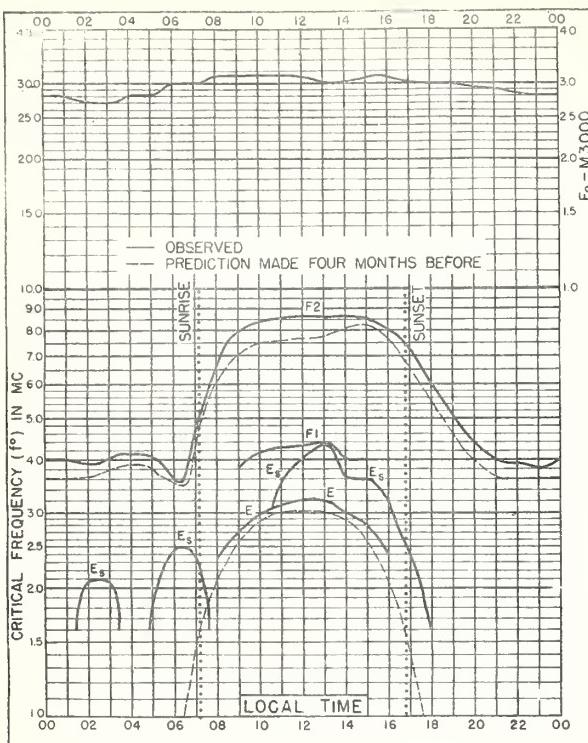


Fig. 44. CANBERRA, AUSTRALIA
35.3°S, 149.0°E JUNE 1946

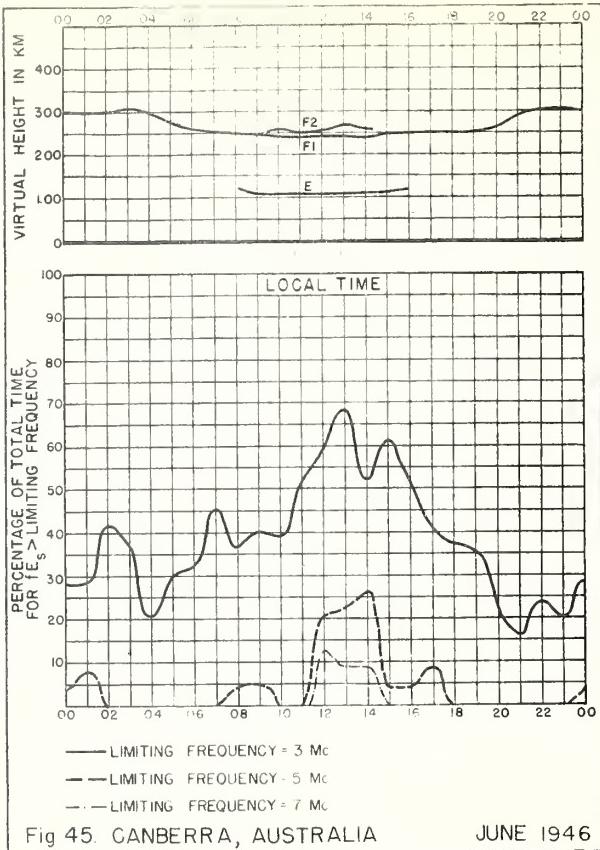


Fig. 45. CANBERRA, AUSTRALIA JUNE 1946

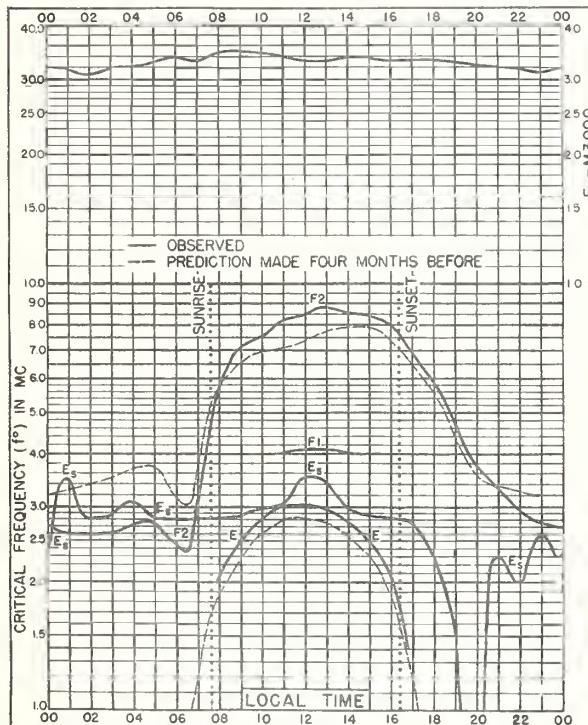


Fig. 46. HOBART, TASMANIA
42.8°S, 147.4°E JUNE 1946

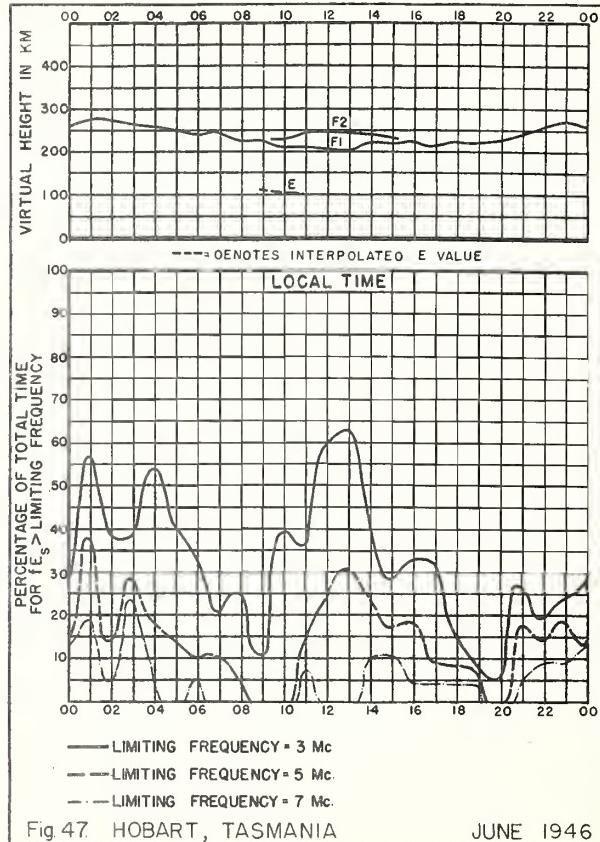


Fig. 47. HOBART, TASMANIA JUNE 1946

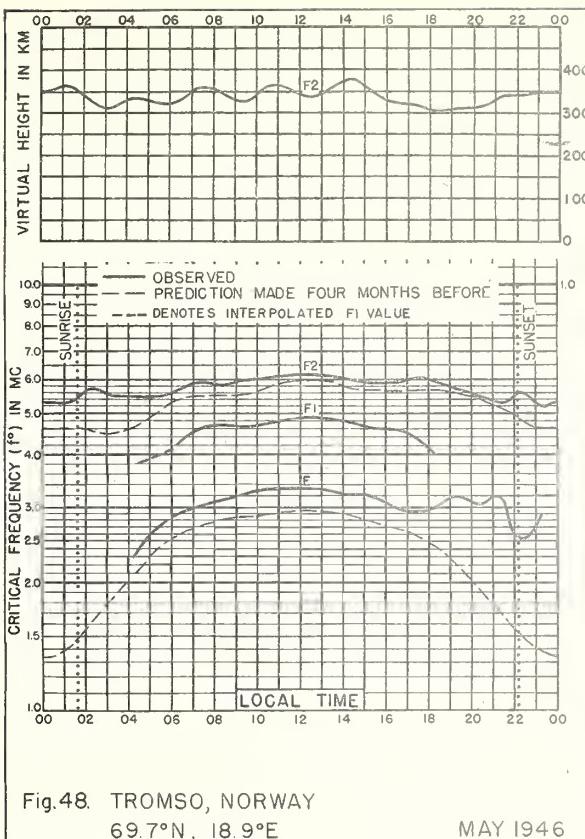


Fig. 48. TROMSO, NORWAY
69.7°N, 18.9°E MAY 1946

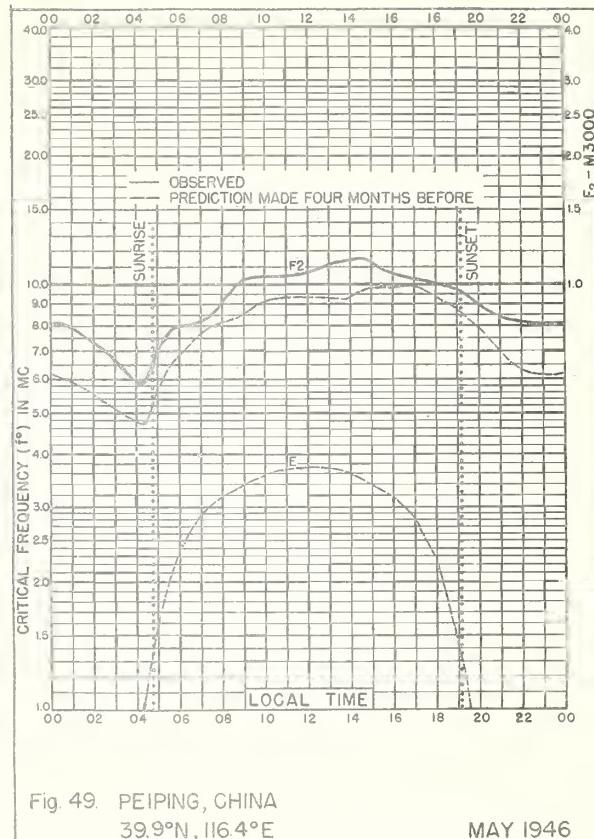


Fig. 49. PEIPING, CHINA
39.9°N, 116.4°E MAY 1946

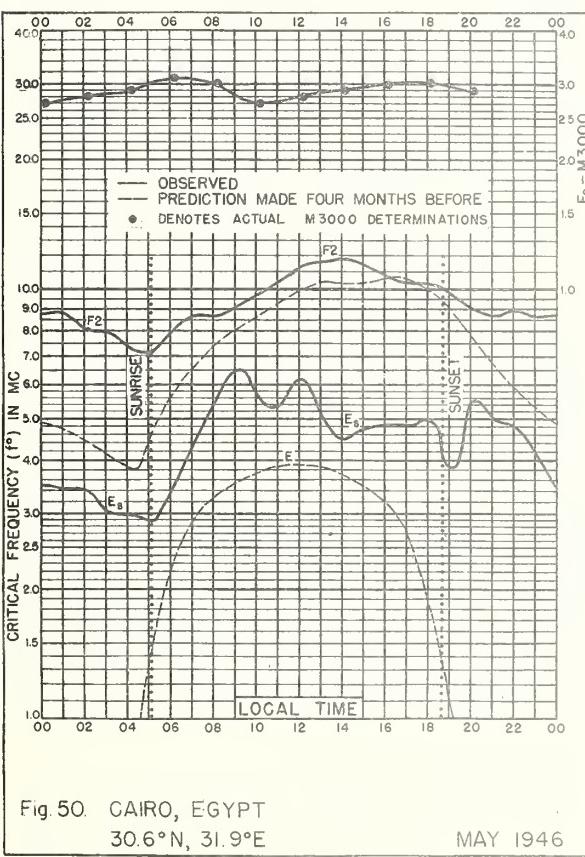


Fig. 50. CAIRO, EGYPT
30.6°N, 31.9°E MAY 1946

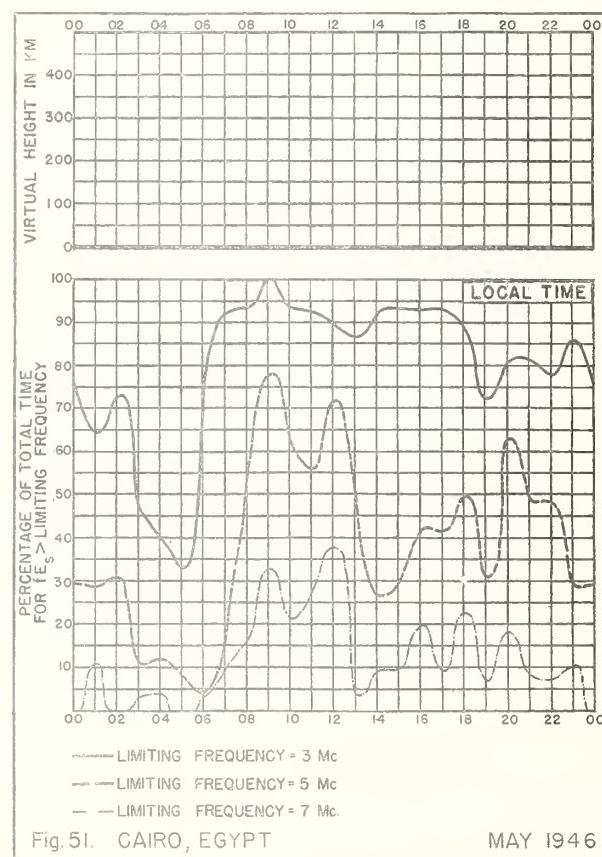


Fig. 51. CAIRO, EGYPT MAY 1946

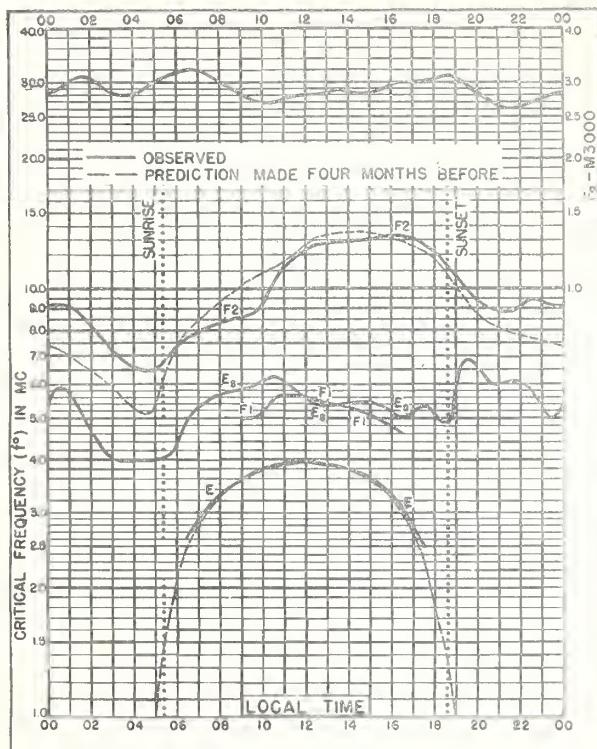


Fig. 52. OKINAWA I.

26.3°N, 127.8°E

MAY 1946

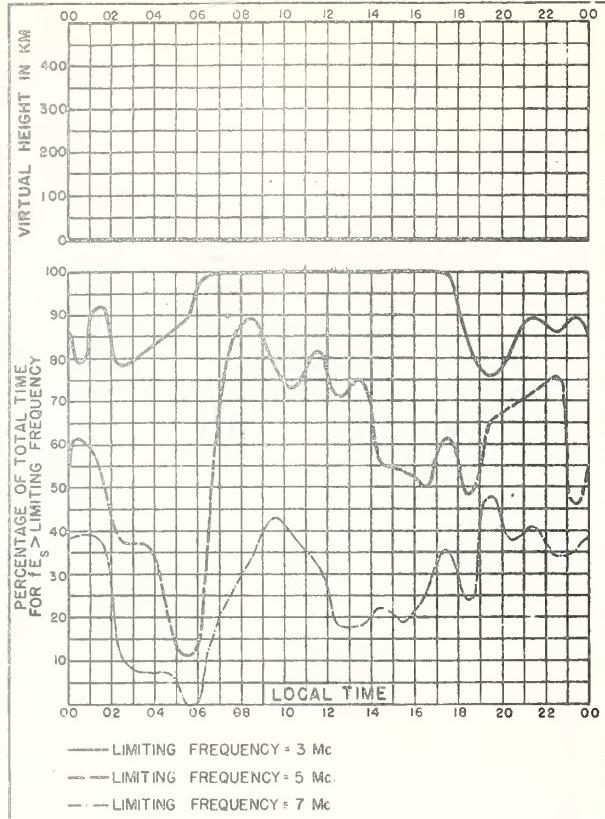


Fig. 53. OKINAWA I.

MAY 1946

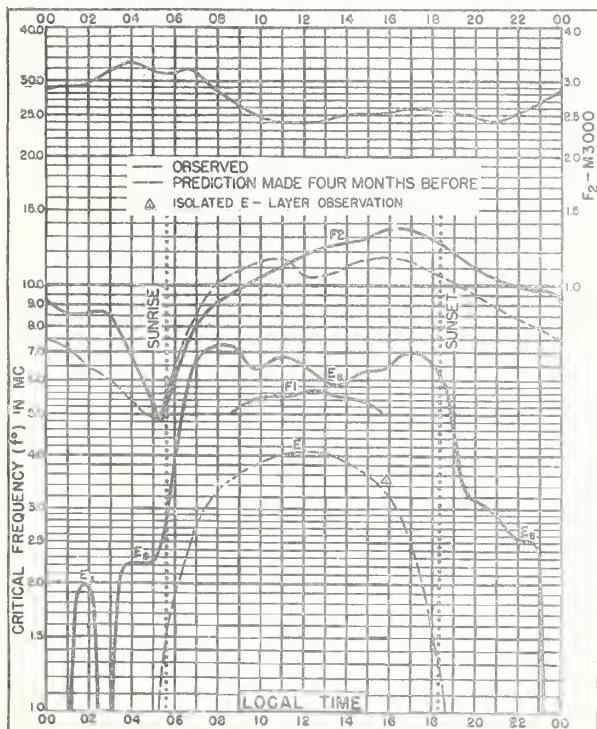


Fig. 54. GUAM I.

13.5°N, 144.8°E

MAY 1946

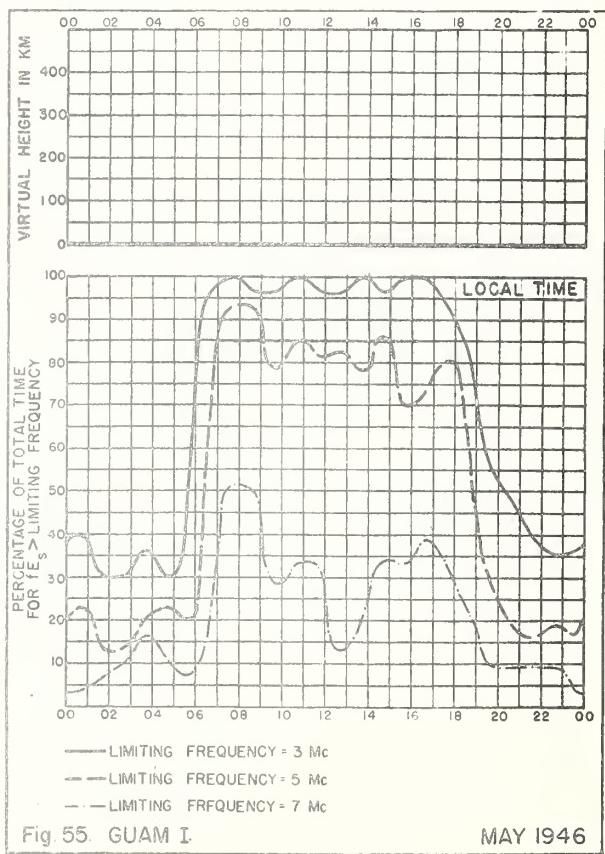


Fig. 55. GUAM I.

MAY 1946

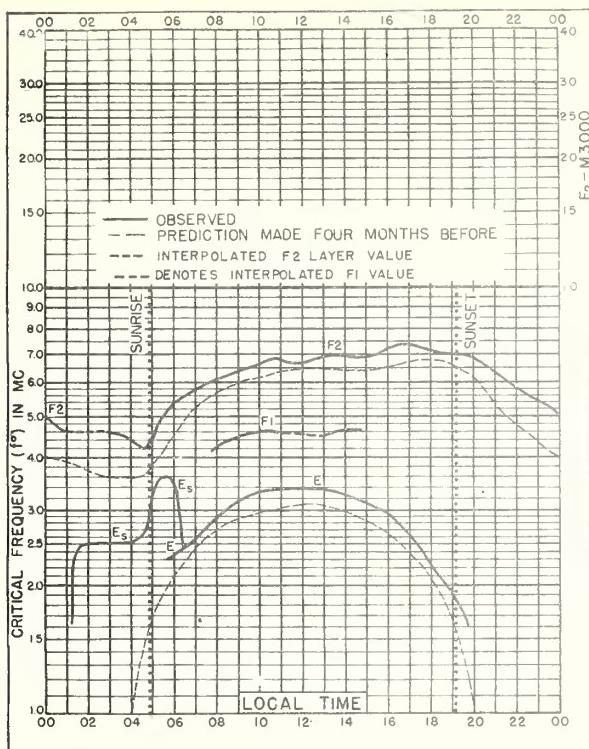


Fig. 56. OSLO, NORWAY

59.9°N, 11.0°E

APRIL 1946

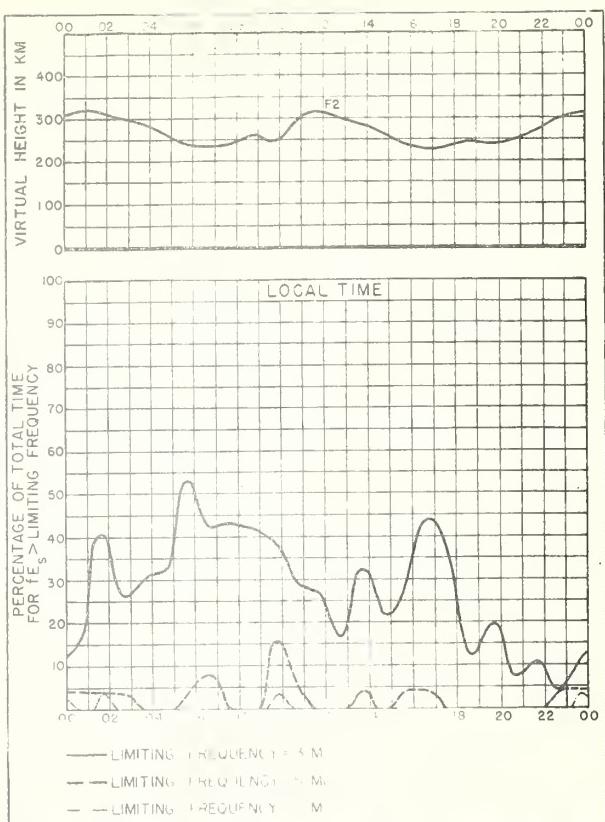


Fig. 57. OSLO, NORWAY

APRIL 1946

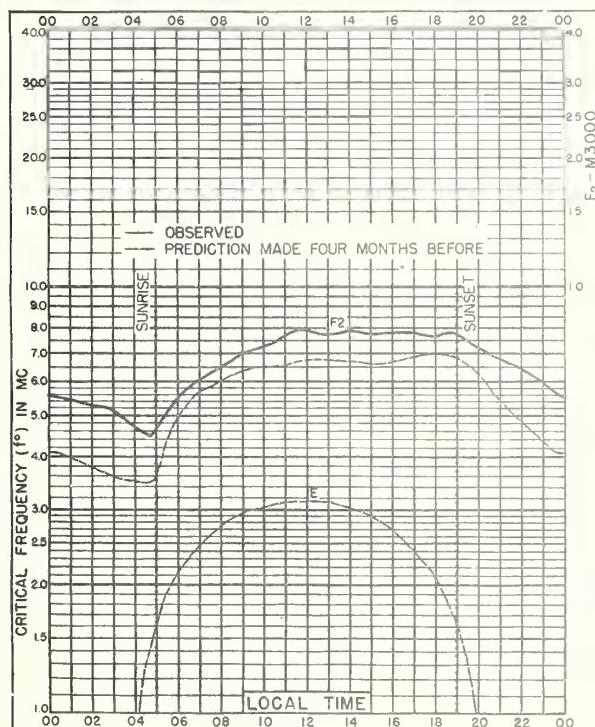


Fig. 58. BURGHEAD, SCOTLAND

57.7°N, 3.5°W

APRIL 1946

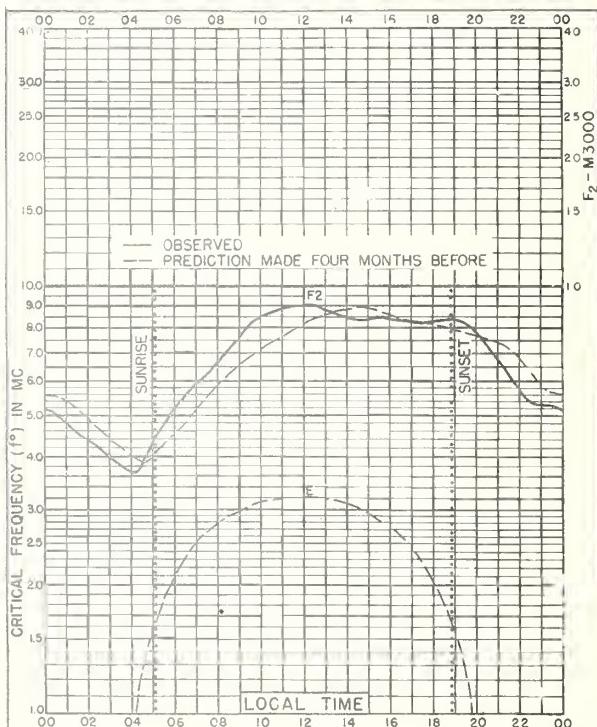
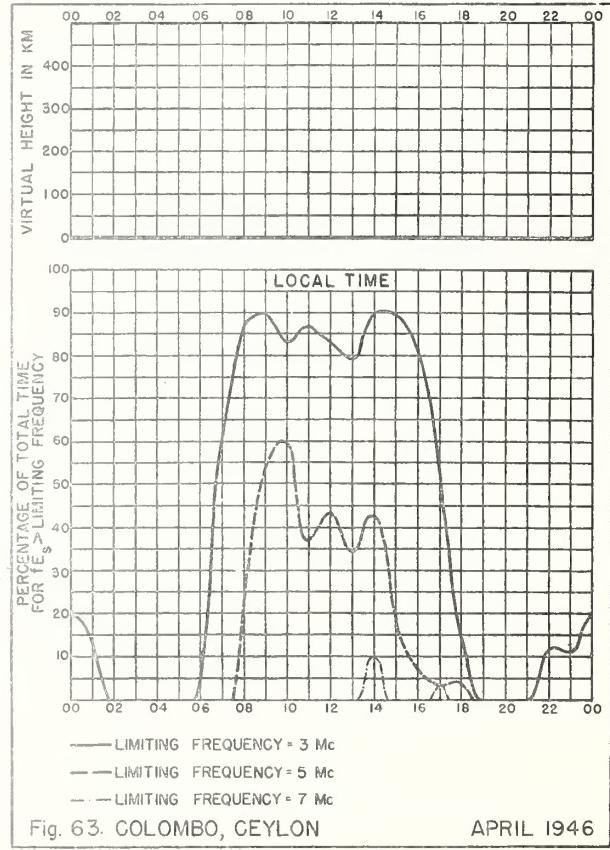
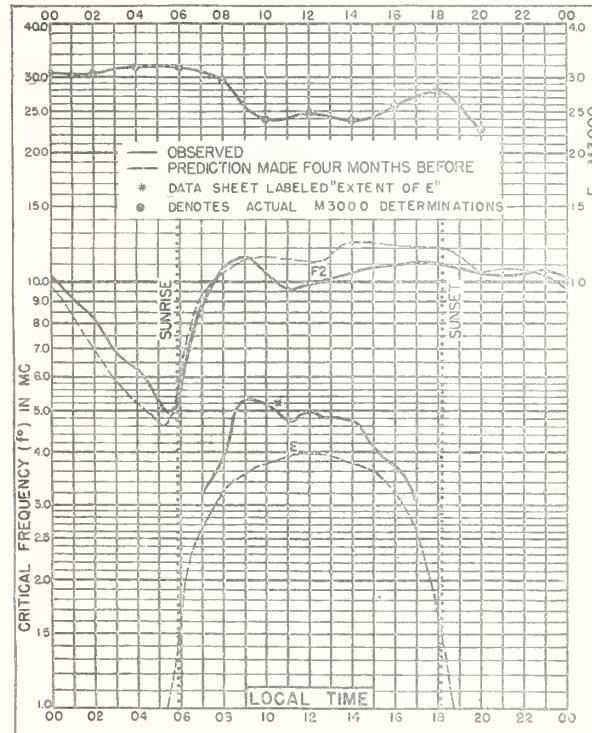
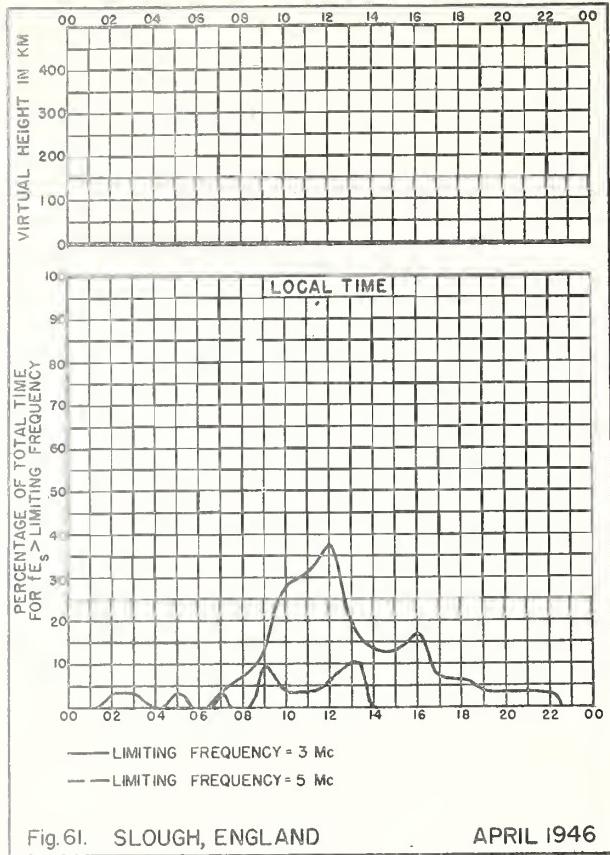
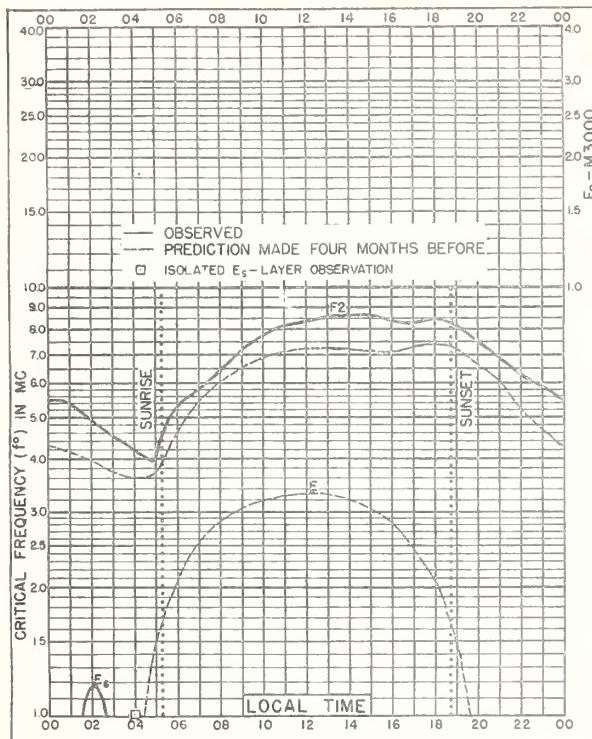


Fig. 59. MOSCOW (KRASNaja PAKHRA), U.S.S.R.

55.5°N, 37.3°E

APRIL 1946



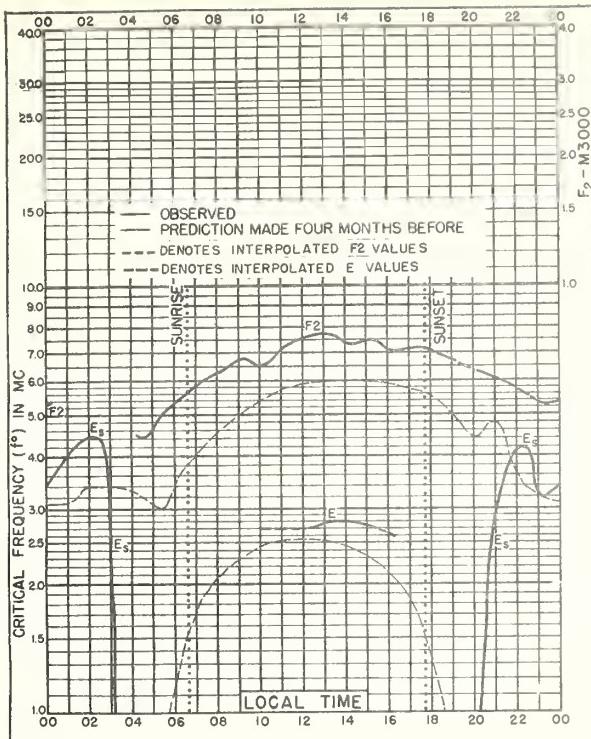


Fig. 64. TROMSO, NORWAY
69.7°N, 18.9°E MARCH 1946

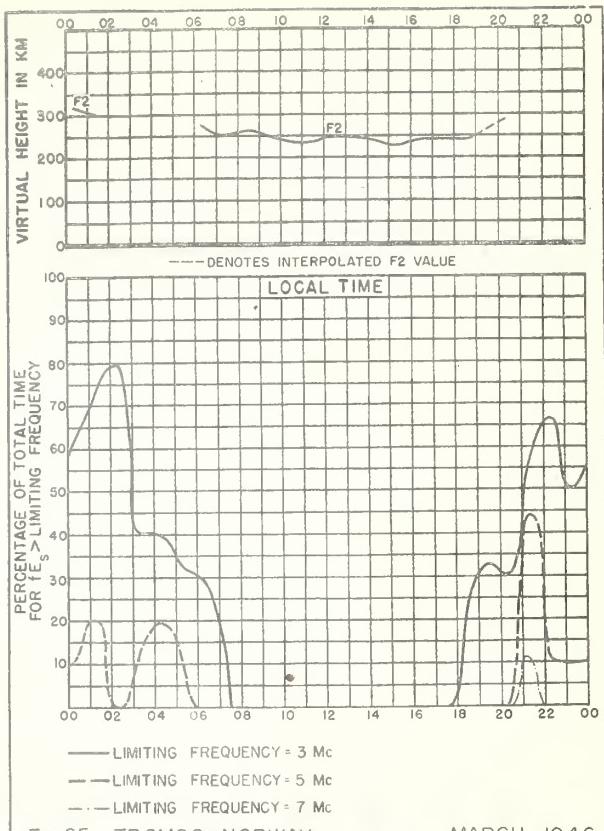


Fig. 65. TROMSO, NORWAY MARCH 1946

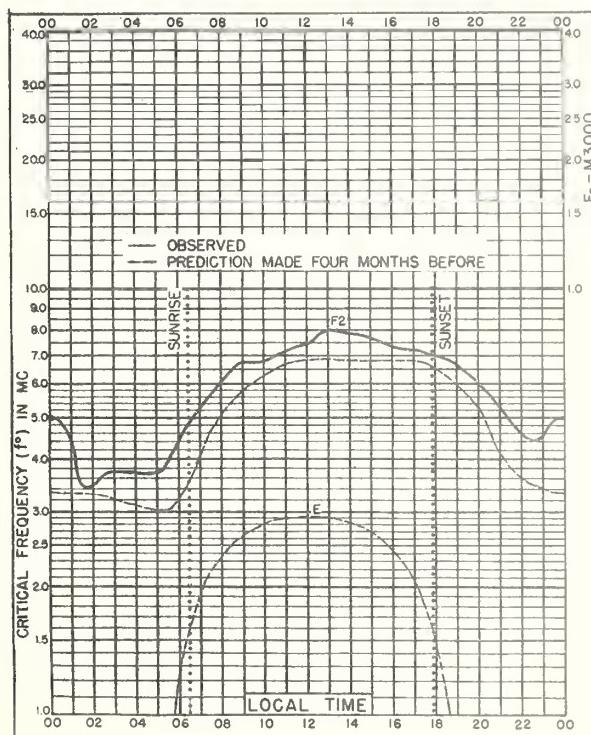


Fig. 66. BURGHEAD, SCOTLAND
57.7°N, 3.5°W MARCH 1946

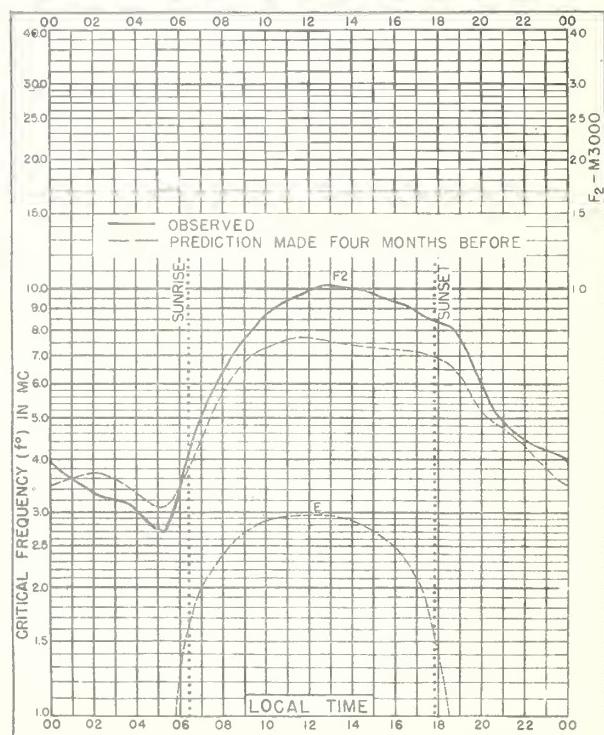


Fig. 67. MOSCOW (KRASNaja PAKHRA), U.S.S.R.
55.5°N, 37.3°E MARCH 1946

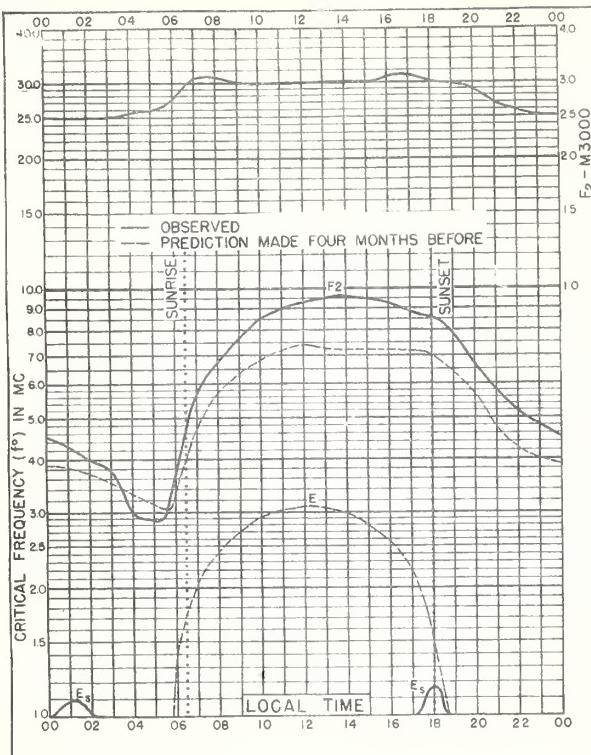


Fig. 68. SLOUGH, ENGLAND

 51.5°N , 0.6°W

MARCH 1946

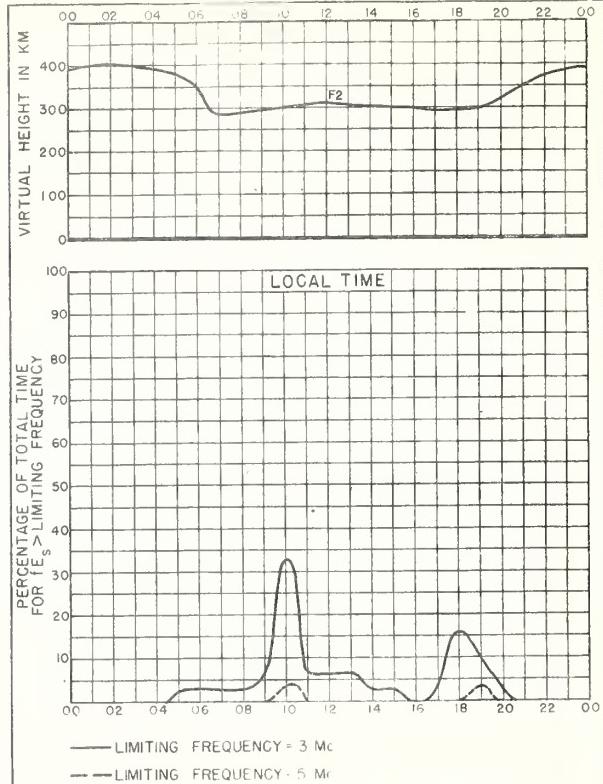


Fig. 69. SLOUGH, ENGLAND

MARCH 1946

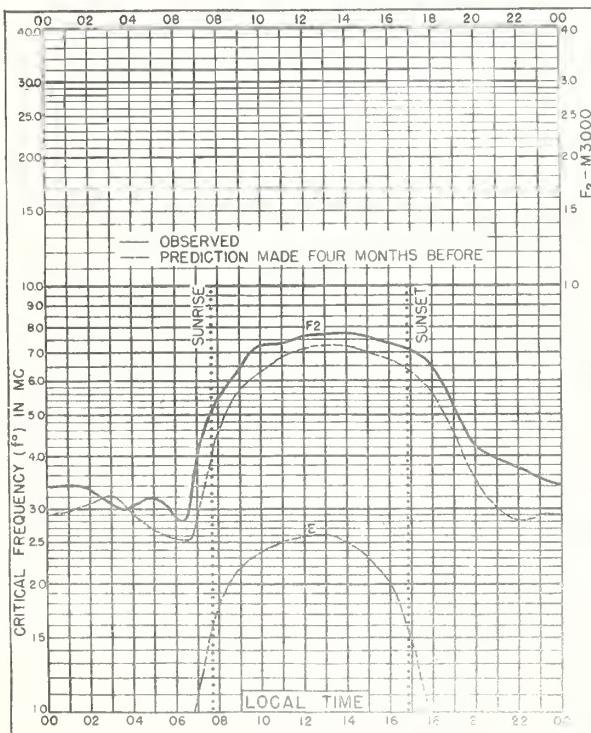


Fig. 70. BURGHEAD, SCOTLAND

 57.7°N , 3.5°W

FEBRUARY 1946

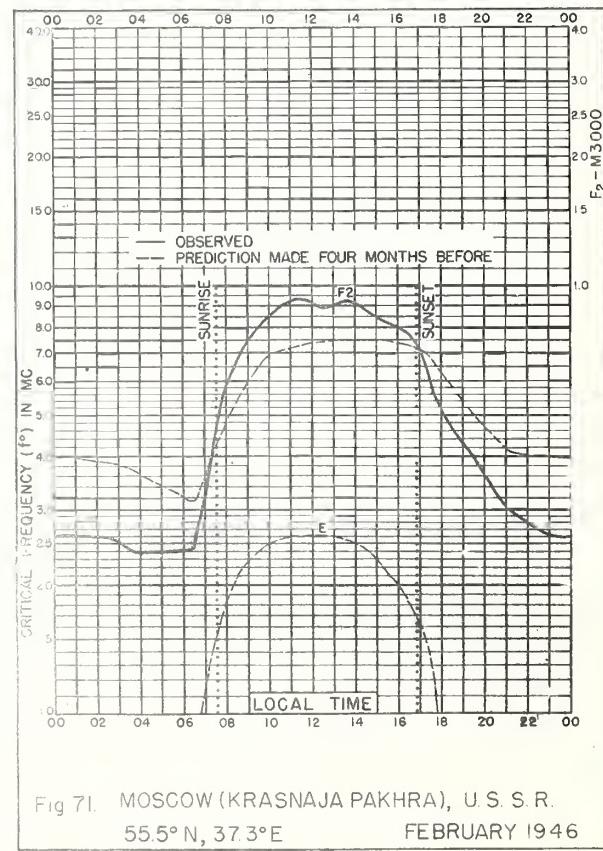


Fig. 71. MOSCOW (KRASNaja PAKHRA), U.S.S.R.

 55.5°N , 37.3°E

FEBRUARY 1946

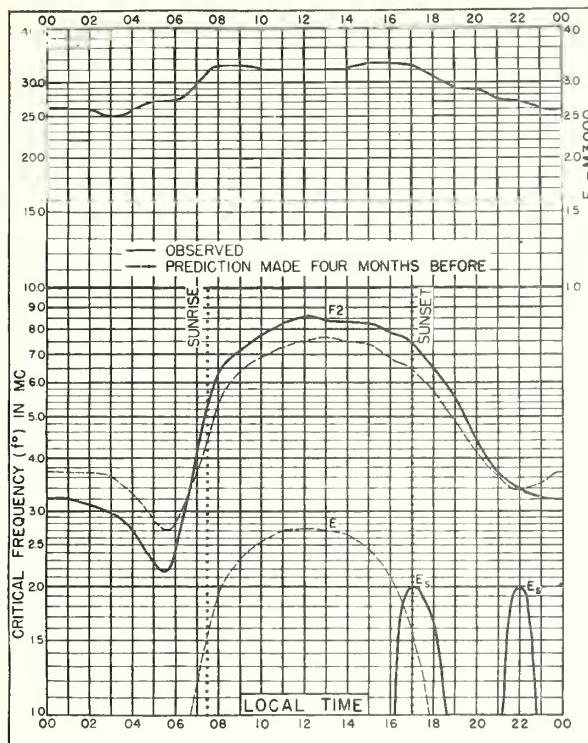


Fig. 72. SLOUGH, ENGLAND
51.5°N, 0.6°W

FEBRUARY 1946

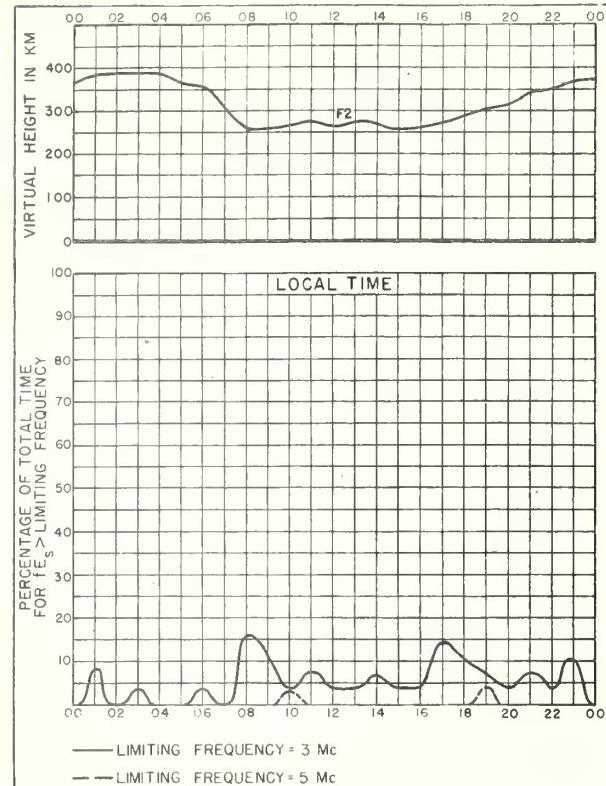


Fig. 73. SLOUGH, ENGLAND

FEBRUARY 1946

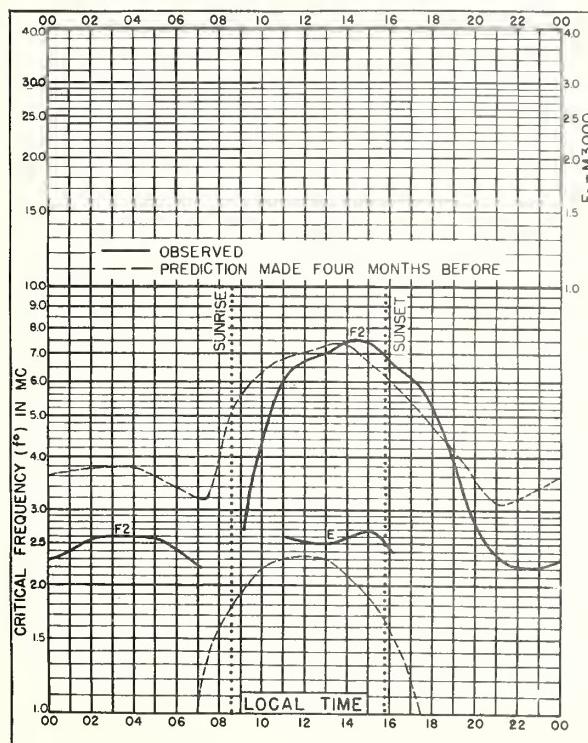


Fig. 74. SVERDLOVSK, U.S.S.R.
56.7°N, 61.1°E

JANUARY 1946

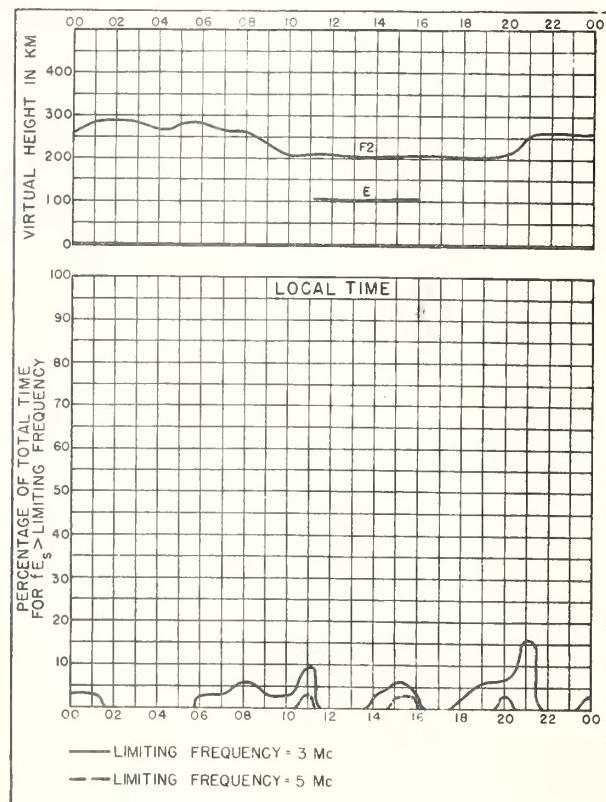


Fig. 75. SVERDLOVSK, U.S.S.R.

JANUARY 1946

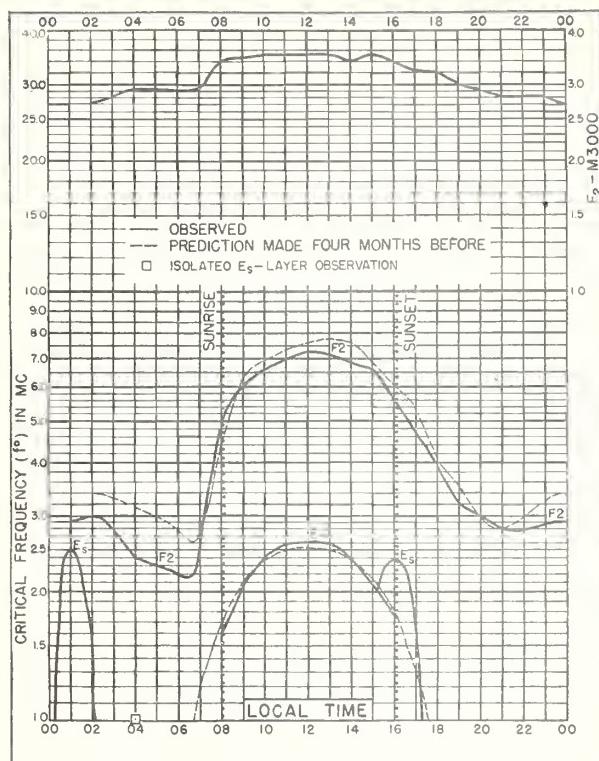


Fig. 76. SLOUGH, ENGLAND
51.5°N, 0.6°W JANUARY 1946

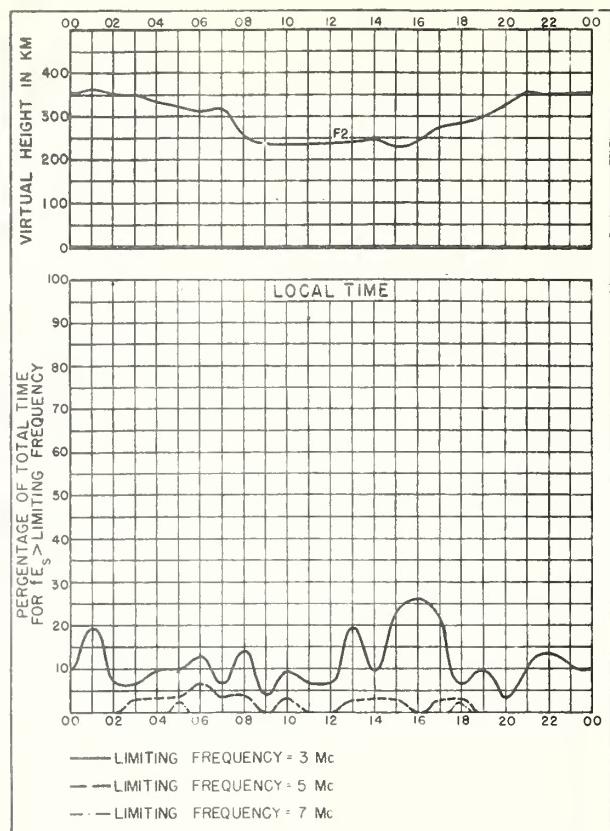


Fig. 77. SLOUGH, ENGLAND JANUARY 1946

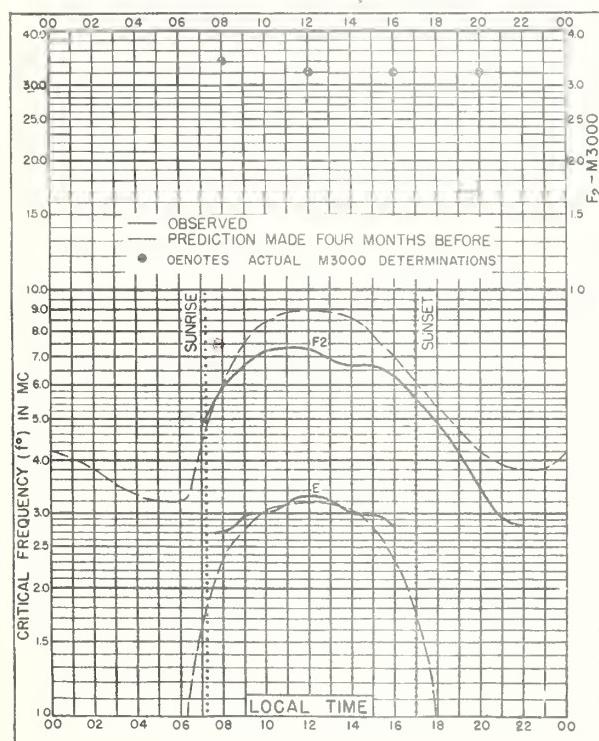


Fig. 78. PESHAWAR, INDIA
34.0°N, 71.5°E JANUARY 1946

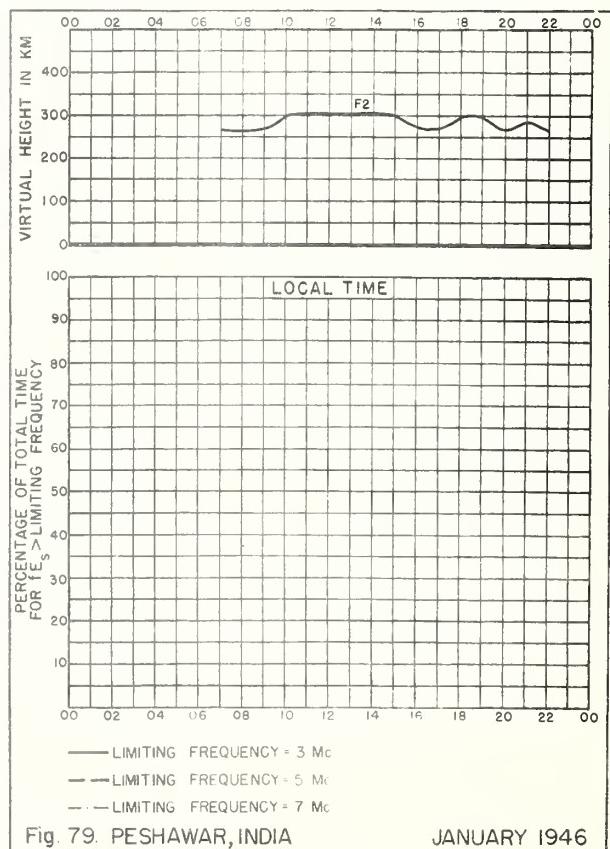
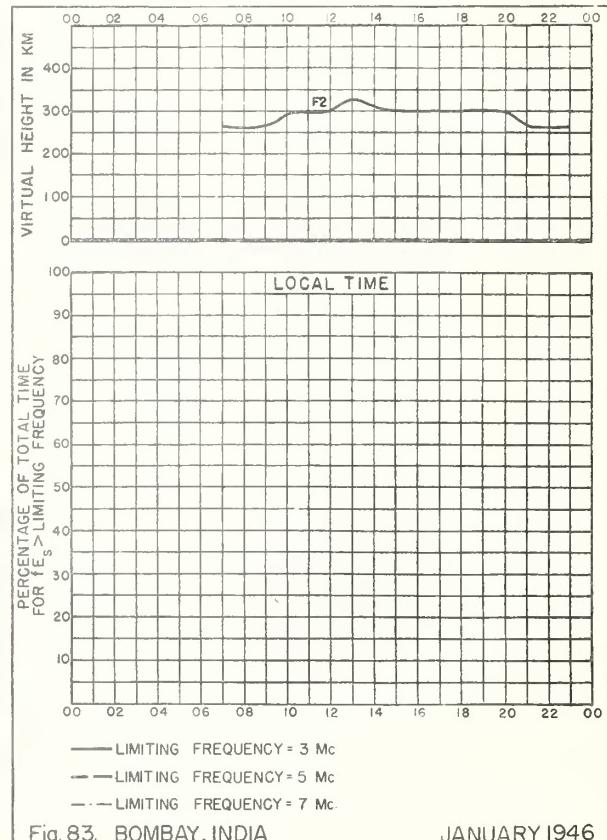
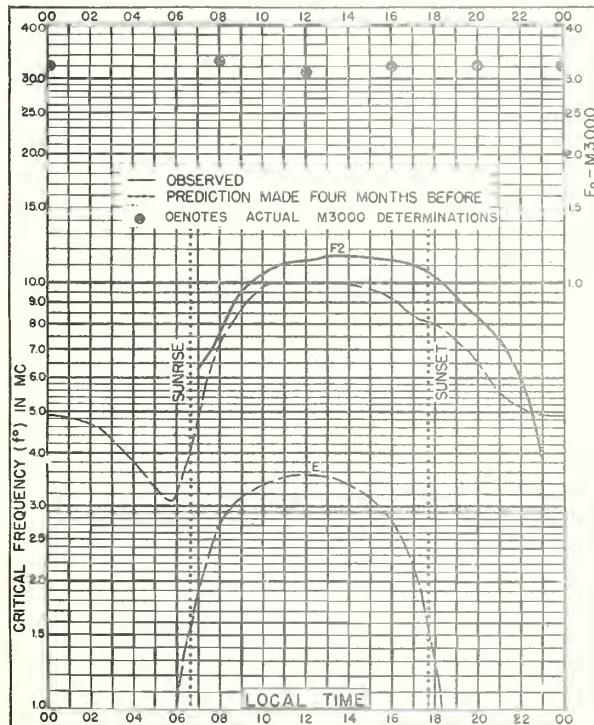
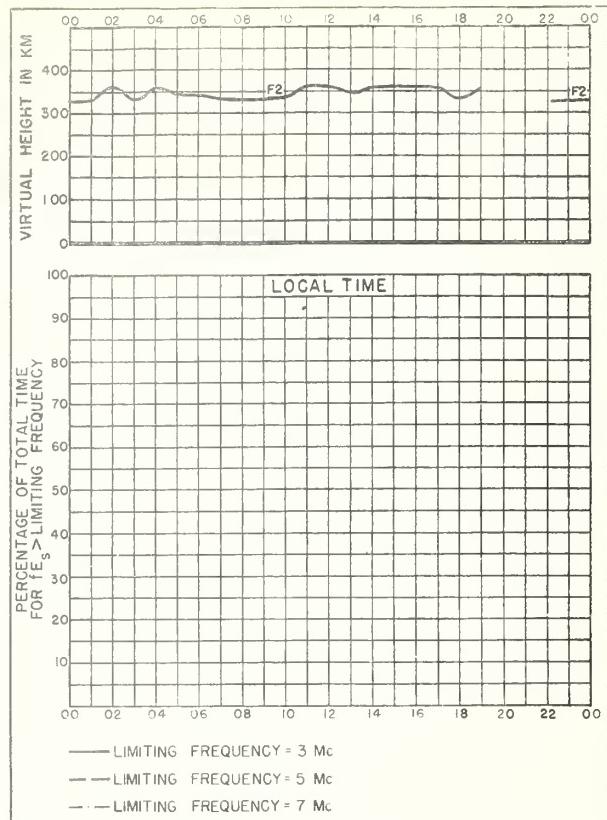
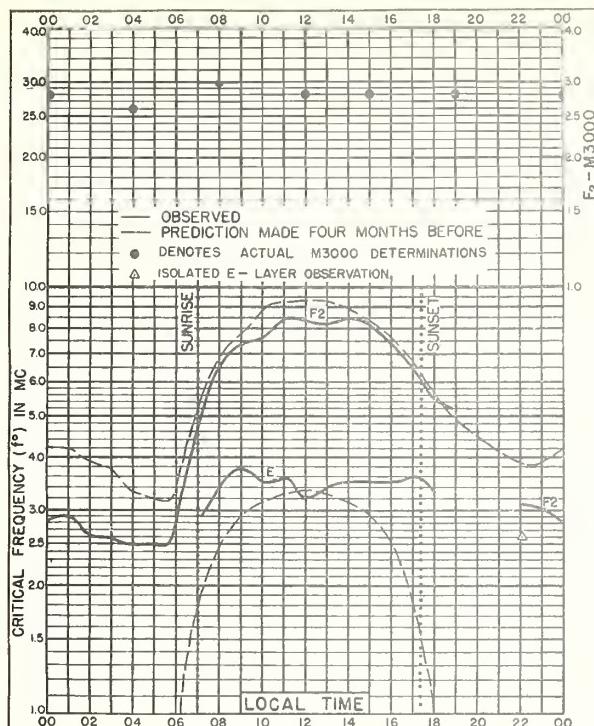
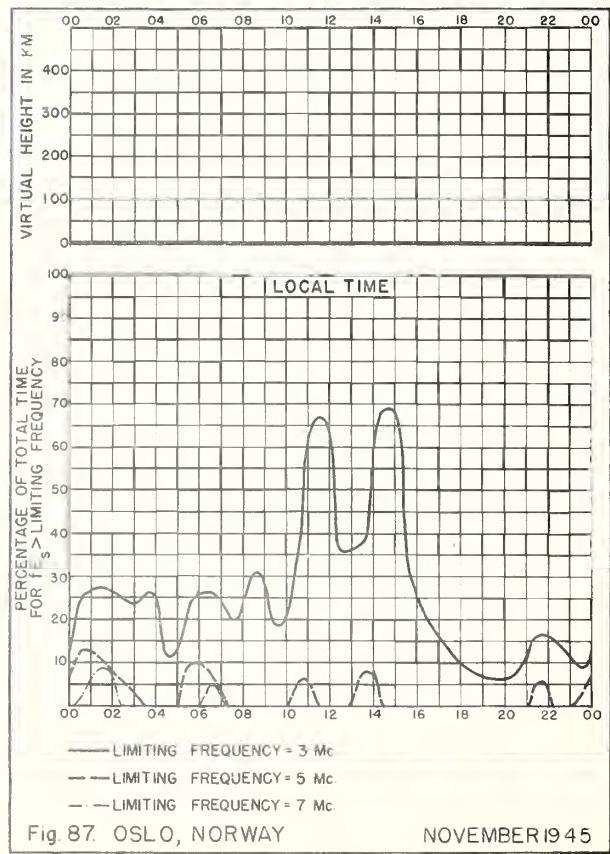
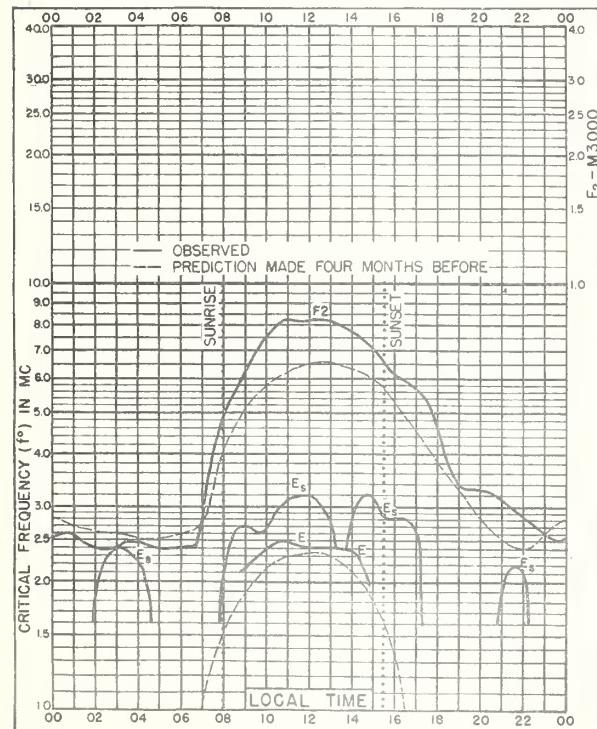
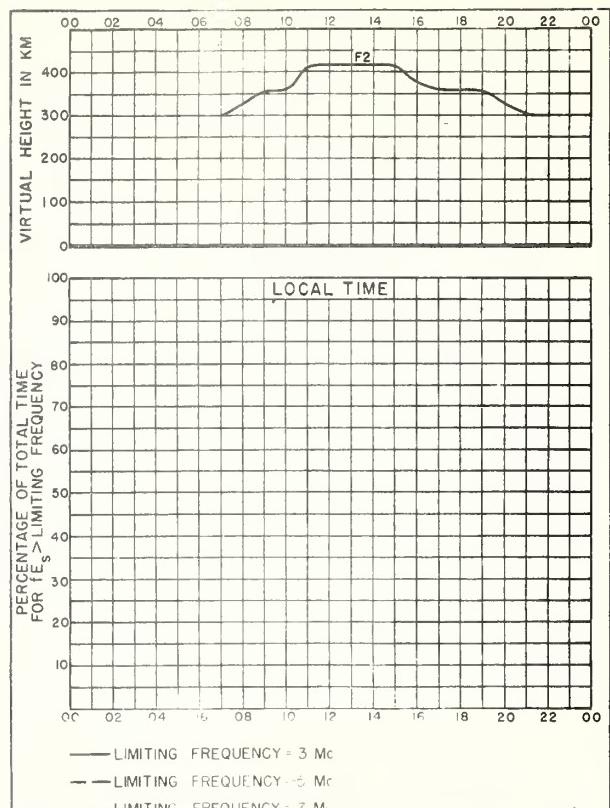
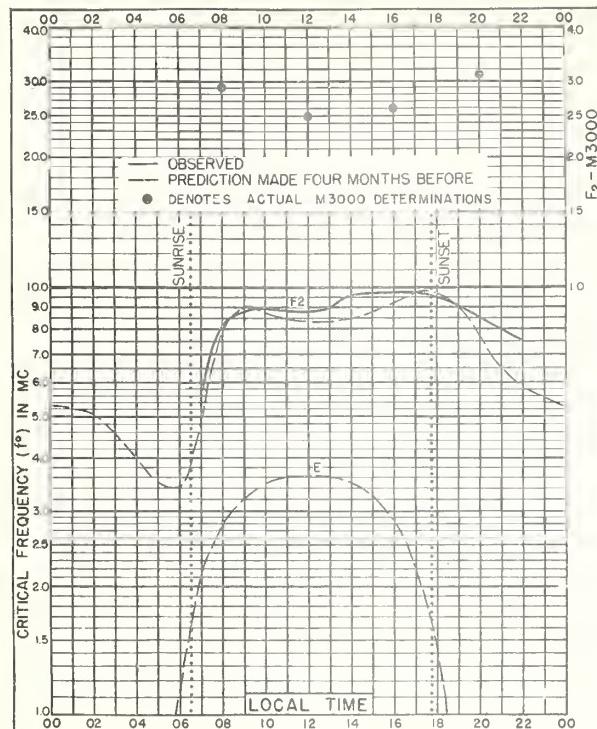


Fig. 79. PESHAWAR, INDIA JANUARY 1946





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Radio disturbance warnings, every half hour from broadcast station WWV of the National Bureau of Standards.
Telephoned and telegraphed reports of ionospheric, solar, geomagnetic and radio propagation data.

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Semimonthly:

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IRPL-C61. Report of the International Radio Propagation Conference, 17 April to 5 May 1944.

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- R4. Methods Used by IRPL for the Prediction of Ionosphere Characteristics and Maximum Usable Frequencies.
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- R7. Second Report on Experimental Studies of Ionospheric Propagation As Applied to The Loran System.
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- R21. Notes on the Preparation of Skip-Distance and MUF Charts for Use by Direction-Finder Stations. (For distances out to 4000 km.)
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- R26. The Ionosphere as a Measure of Solar Activity.
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- R29. Revised Classification of Radio Subjects Used in National Bureau of Standards (U.S. Letter Circular LC-514 superseding circular C355).
- R30. Disturbance Rating in Values of IRPL Quality - Figure Scale From A. T. & T. Co. Transmission Disturbance Reports to Replace T.D. Figures as Reported.
- R31. North Atlantic Radio Propagation Disturbances, October 1943 through October 1945.
- R32. Nomographic Predictions of F2-layer Frequencies Throughout the Solar Cycle, for February.
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- R35. Comparison of Percentage of Total Time of Occurrence of Second-Multiple Es Reflections and That of fEs in Excess of 3 Mcs.

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